

*The*  
**CHEMIST AND DRUGGIST**  
or RETAILER — WHOLESALE — MANUFACTURER  
JANUARY 19, 1952



*Make 1952 a Record Year!*



by selling  
**RED DIAMOND**  
goods

**BURGOYNE BURBIDGES**

Established 1741.

& COMPANY LIMITED, **LONDON, E.6**



# **'DISTIVIT'**

'DISTIVIT' B<sub>12</sub> presents a solution of crystalline Vitamin B<sub>12</sub> in an especially pure and potent form. It is issued in three strengths, in ampoules containing 20, 50 and 100 micrograms per ml. in boxes of 5 x 1 ml. ampoules.

*Distributed by*  
BURROUGHS WELLCOME & CO.  
EVANS MEDICAL SUPPLIES LTD.  
IMPERIAL CHEMICAL (PHARMACEUTICALS) LTD.

*'DISTIVIT', a trade mark, the property of the manufacturers*

**THE DISTILLERS COMPANY**  
**(BIOCHEMICALS) LIMITED**

SPEKE

LIVERPOOL.



## Don't thank me

—I'm only the girl on the counter box who sells the product. Thank the genius who gave you new sales and every housewife what she has been desperately wanting—'Proof,' the new *waterproofing* barrier that really does stand up to modern washing powders in hot water.

By their very efficiency as grease solvents, these new washers first dissolve off soft cream barriers, then take out the natural oil from the skin. No wonder hands become dry, rough, and prone to

chapping. But that's all over now. 'Proof' *waterproofs* hands. So the solvents never touch them; hands remain healthy, soft and white.

I am the girl in the advertisements, too. See me in the Radio Times, a week from today, telling 8 million women what a boon 'Proof' is—and telling them to get it from *you*. One M.P.S. put me on his counter with 3 dozen on Friday; I sold 25 by Saturday night. He's in his 15th dozen now.

# PROOF PREVENTS dishpan hands

'Proof' sells for 3/- (month's supply) P.T. only 33½%. Wholesale 21/7d doz. Bonus: 13 to doz. (January only). Show piece with all retail deliveries. Selling Agents: Walter Crowe Ltd., 3/4 Little Russell St., London, W.C.2.



## Film Advertising History is made!

**THE TURNING POINT**—a story of a marriage that nearly crashed—in production at Warner Brothers' studios at Walton-on-Thames

### AND FIVE OTHER WINNERS!

**Counsel's Dilemma.** Behind the pomp and trappings of justice, the story of one man's fight with himself.

**Deadline.** The hectic world of news needs men who are tough. But even they can crack!

**Lab. Report.** The air of soulless antiseptic efficiency that prevails in a big research laboratory is often superficial. The men and women who work there are only human.

**A Father Forgot.** A child's heart is easy to break... and very hard to mend.

**A Model called Jennie.** The fashion world may be a 'world apart'—but its inhabitants are ordinary men and women.

### HOLLYWOOD TOUCH

Directed with the sure touch, technical mastery and brilliant flair of one of Hollywood's leading directors, these films will stay in the audience's mind for a long time.

And, in collaboration, a famous script-writer; one of Britain's major novelists lends to the dialogue the distinction that marks the master and helps to make these films something different.

## And six magnificent Horlicks Films come to help us all sell HORLICKS

SIX NEW technicolor films have just been completed for Horlicks, and will shortly be released.

They mark a new advance in film advertising technique. When you've seen them, you'll agree.

Each of these six films is a story in its own right—sincere, compelling, true-to-life. But each sells Horlicks, too, and sells it *hard*, for your benefit and ours. In effect, it's the Horlicks press advertising come to life—with the power that only the screen can give.

Watch out for these films. Over a thousand cinemas will carry them between now and March. They'll be coming to your neighbourhood shortly, and your Horlicks representative will be able to give you the dates of local showings. And don't forget to ask him for extra stocks of Horlicks. You'll need them!

## HORLICKS

# Best Ever!

This seems to be the general opinion among our retail friends of this year's Crookes Halibut Oil Public Press campaign, and results make it evident that the British public agrees.

Bonus in kind can only be allowed when one or more of the standard parcels E, G, H, J, L and P are ordered. Apart from the above bonus parcels, other quantities of Crookes Halibut Oil and Capsules and Halibut Oil Emulsion can always be supplied at normal discount. Orders not accompanied by cash will be charged to monthly account.

| Standard Bonus Parcels |  |                    |          |
|------------------------|--|--------------------|----------|
| <b>PARCEL E</b>        | 39 x 25 Capsules @ 2/6 Retail              | Total retail value | £4 17 6  |
|                        |  | Cost of parcel ... | £3 0 9   |
| <b>PARCEL G</b>        | 13 x 15 c.c. Drops @ 5/- Retail            | Total retail value | £3 5 0   |
|                        |  | Cost of Parcel ... | £2 0 6   |
| <b>PARCEL H</b>        | 39 x 5 c.c. Drops @ 2/- Retail             | Total retail value | £3 18 0  |
|                        |  | Cost of parcel ... | £2 8 7   |
| <b>PARCEL J</b>        | 13 x 30 c.c. Drops @ 9/- Retail            | Total retail value | £5 17 0  |
|                        |  | Cost of parcel ... | £3 12 11 |
| <b>PARCEL L</b>        | 13 x 100 Capsules @ 8/6 Retail             | Total retail value | £5 10 6  |
|                        |  | Cost of parcel ... | £3 8 10  |
| <b>PARCEL P</b>        | 13 x 15 c.c. Infants Emulsion @ 3/6 Retail | Total retail value | £2 5 6   |
|                        |  | Cost of parcel ... | £1 8 4   |

## CROOKES HALIBUT OIL



**PATA**

THE CROOKES LABORATORIES LIMITED • PARK ROYAL • LONDON, N.W.10

# CARNEGIE

*Manufacturers of Fine Chemicals*



*specialize in the manufacture of*

**AMINOPHYLLINE**

• • •

**CAFFEINE ALKALOID  
and its Salts**

• • •

**HYDANTOIN DERIVATIVES**

• • •

**PARA-AMINO-SALICYLIC ACID  
and its Sodium Salt**

• • •

**THEOBROMINE ALKALOID  
and its Salts**

• • •

**SYNTHETIC ORGANIC  
CHEMICALS**

• • •

**ETC.**

•

**CARNEGIE ORGANICS LTD**

**WELWYN GARDEN CITY : HERTFORDSHIRE : ENGLAND**

**TELEGRAMS: CARNEGIANIC, WELWYN GARDEN TELEPHONE: WELWYN GARDEN 506 (4 lines)**

**A 'CARNEGIES OF WELWYN' COMPANY**

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## LAMARNE'S

# Adrenaline

The new Adrenaline Cream

for  
**RELIEF OF RHEUMATIC PAINS**

- Prescribable on E.C.10
- Attractive Pack and Show material
- Stability guaranteed at least one year
- Exempt from P.T.
- Dispensable on Non-specified 'Adrenaline Cream 1:5000 E.C.10's'

**RETAIL 5/- 2oz. Jar TRADE 36/- per 13 to doz. YOUR PROFIT 2/5 per Jar**

★ ORDER FROM YOUR USUAL WHOLESALER OR DIRECT FROM

## LAMARNE LABORATORIES LIMITED

**20, HIGH STREET, SUTTON, SURREY.**

Telephone: VIGILANT 3390

Telegrams: LAMARNE, SUTTON, SURREY

Sole Distributors for Eire:

FASSETT & JOHNSON (IRELAND) LTD.

Sole Distributors for Hong Kong:

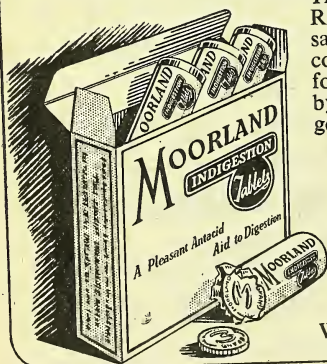
SHEWAN, TOMES & CO. LTD.

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# THE NEW MOORLAND ROLL PACK

NOW AVAILABLE IN 2/- SIZE



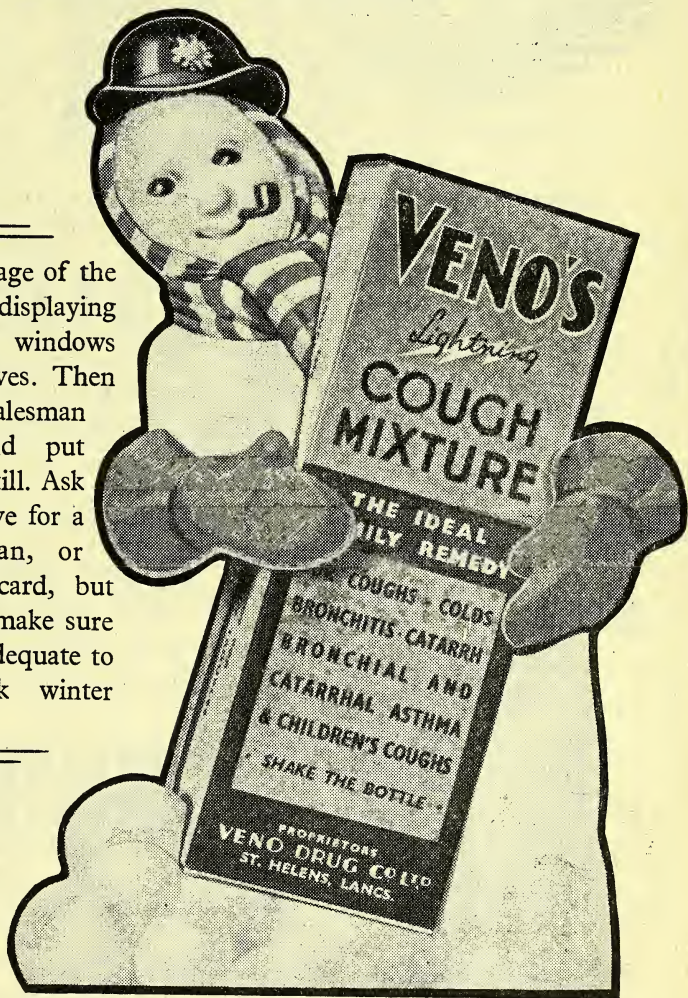
The unprecedented success of the 1/1d. size Moorland Roll Pack (40 tablets) has led to the introduction of the same convenient rolls in the large size pack. Each carton contains 8 rolls of 10 tablets each — 80 tablets in all for 2/0d. Take advantage of this growing public demand by stocking and displaying Moorland Antacid Indigestion Tablets in your window and on your counter.

## MOORLAND ANTACID INDIGESTION TABLETS

W. B. CARTWRIGHT LTD., RAWDON, LEEDS

# A SEASONAL COUNTER SALESMAN

Take full advantage of the Veno peak by displaying Veno's in your windows and on your shelves. Then let this Counter Salesman clinch sales and put money into your till. Ask our Representative for a Veno's Snowman, or drop us a postcard, but before doing so make sure your stocks are adequate to meet the peak winter demand.



All enquiries and orders, please, to:—

**BEECHAM (NORTHERN) LTD., ST. HELENS, LANCs.**

*Sole Distributors for Veno Drug Co. Ltd., St. Helens.*



OF BRIGHTON

Our reputation for  
**ACCURACY** and  
**UNIFORMITY** has been  
built on 113 YEARS of  
concentrated experience  
and specialized  
'KNOW-HOW' in the  
scientific production  
of

# TABLETS and PILLS

of every  
description

INQUIRIES WELCOMED

ARTHUR H.

# COX

& CO. LIMITED

BRIGHTON



## Sensitive skins

Cuticura Shaving Soap is *mildly medicated*. . . your customers will thank you for introducing them to the perfect stick for tender faces. The black and orange plastic holder for this large sized stick attracts the eye: display cartons with each half-dozen make them easy sellers at your counter.

National advertising supports your sales.  
*Cuticura Shaving Sticks retail at 2/2 (Inc. P.T.)*  
Trade price 15/6 doz. P.T. 5/2 doz.

# Cuticura

MILDLY MEDICATED  
**SHAVING STICK**

**DON'T FORGET QUICK SELLING CUTICURA SOAP**  
Order to-day from **NEWBERRY & PHILLIPS LTD.**  
Victoria House, Southampton Row, W.C.1. **tel. 1564**

*When your Customers  
ask for* **RAT POISON**



*you are safe in selling*

# RODINE

**PHOSPHORUS OR  
RED SQUILL**

With RODINE there is no hit or miss—each and every batch is laboratory tested to ensure the strength and biological activity of the toxic chemicals employed.

**SOUND PROFITS TO YOU  
AND YOUR CUSTOMER**

**THOMAS HARLEY LTD.**  
PERTH, SCOTLAND

P.A.T.A.



*Just to remind you*

MULTIVITE in its new bottle pack of 50 pellets combines the virtues of shelf appeal with economy. A neat display carton of six bottles supplemented by a showcard in full colour is available to encourage impulse sales.

## **'MULTIVITE'** VITAMINS A B<sub>1</sub> C D<sub>2</sub>

Bottle of 50 'Multivite' pellets: Pharmacists 2/4: Retail 3/6

*Remember also*

### **'RADIO-MALT'**

the vitamin preparation with the delicious toffee flavour

1 lb. jar Pharmacists 2/5½    Retail 3/6  
2 lb. jar        „        4/2        „        6/-

### **'FERBELAN'**

the new B.D.H. tonic for children

Bottle of 4 fl. oz. Pharmacists 2/6  
Retail 3/9

*Quantity terms on application*

THE BRITISH DRUG HOUSES LTD. LONDON N.1

*This looks interesting*

## MEMORANDUM

FROM  
BENGER LABORATORIES LTD.,  
HOLMES CHAPEL,  
CHESHIRE

TO  
THE PHARMACEUTICAL  
PROFESSION

DATE 19/1/52

DEPT. SALES  
REF. REG/NEB

### SALICYLAMIDE

Salicylamide, which has been shown to give rise to fewer side reactions than either aspirin or sodium salicylate, whilst possessing a greater analgesic action, is now available in the following forms:

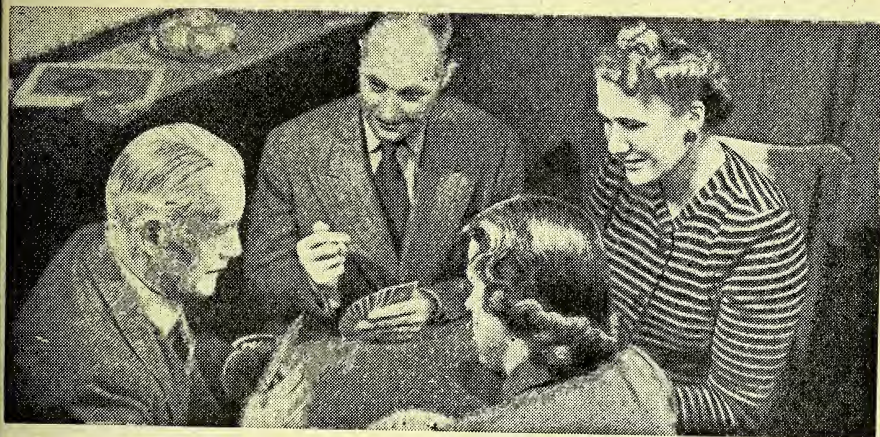
TABLETS of 0.3 gram (5 gr.)  
TABLETS of 0.5 gram (7.5 gr.)

These tablets are supplied in bottles containing 100 or 500, though quotations for bulk quantities will be supplied on request.

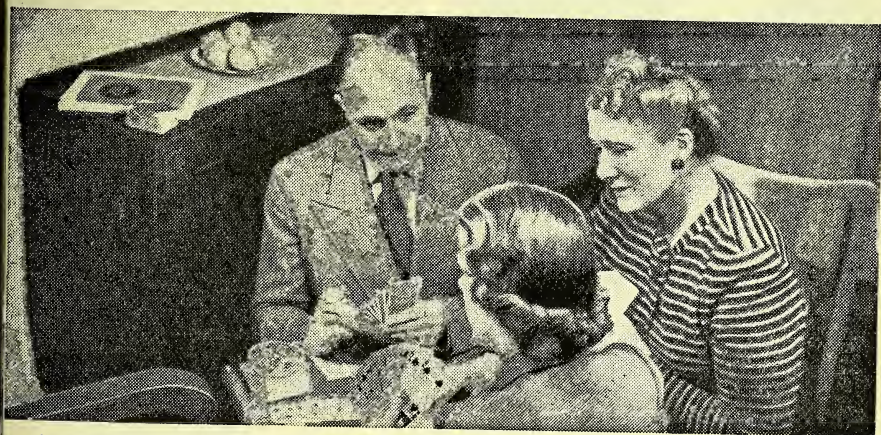
A leaflet describing Salicylamide, its clinical indications and dosage is also available on request.

**Benger Laboratories Limited**

## Of these four people . . .



## . . . three use Steradent



**Of every four people who clean their dentures with a steeping agent, three use Steradent. ★**

STERADENT is the Reckitt & Colman product specially made to "oxygen-clean" false teeth: to drive from every corner and crevice of the denture every trace of film, stain, odour . . . safely, completely.

That is why Steradent brings such steady profits . . . from regular

customers who, once they have tried Steradent, keep on buying it in order to keep their dentures thoroughly, "oxygen-clean."

★ Figures from a recent, independent, survey

# Steradent

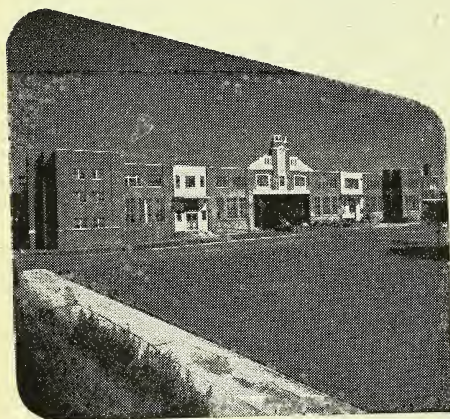
REGO

**Specially made to  
"oxygen-clean" false teeth**



# *chemists only...*

NOW IN OUR 144th YEAR OF TRADING, IT IS OUR POLICY AT MAW OF BARNET TO MARKET PRODUCTS ONLY THROUGH CHEMISTS.



At our London Showroom, 67, Jermyn Street, (near St. James's St.) we have on display a wide variety of Merchandise and Shop Fittings for your inspection and our staff will welcome the opportunity of showing you round between the hours of 9 a.m. and 5.30 p.m. any weekday or by arrangement on Saturday mornings.

From 9 a.m. to 4.30 p.m. at the same address our Surgical Fitting Rooms are open for the convenience of your customers both male and female. To avoid any unnecessary waiting, it is always advisable to arrange for an appointment. Phone: Whitehall 5255.

Our advertising is being increased and we now have advertisements appearing at frequent and regular intervals in the National Press and Women's Magazines for :—

**VELFIN SANITARY TOWELS.  
MAW'S TEATS  
AND  
MAW'S FEEDING BOTTLES.**

Every advertisement carries the message  
" *Chemists Only* "

At Barnet we have our Head Office, Factory, Warehouse and Laboratory where we will always make you welcome should you wish to pay us a visit.



# *...chemists only*

**S. MAW SON & SONS LTD.**  
**ALDRSGATE HOUSE, CROMER ROAD, NEW BARNET, HERTS.**  
PHONE: BARNET 5555

FOR CHEMISTS



DRUGS

SUNDRIES

*Manufacturing Chemists*
**PILLS · TABLETS  
PROPRIETARIES**

HEAD OFFICE & WORKS: MANSFIELD ROAD, DERBY. Tel: 48266 (4 lines)  
 RANCH WAREHOUSE: GROSVENOR ST., ASHTON under LYNE. Tel: 2816 (3 lines)

## ★ IMPORTANT ANNOUNCEMENT ★

# STARMIST

IS THE REGISTERED TRADE NAME  
OF STEINER'S SENSATIONAL HAIR COSMETIC

Acclaimed as the first *new* cosmetic of the century, the result of a brilliant Steiner formula, Starmist is a misty diffusion of glittering, glassamer-fine particles. Sprayed on to the hair from the light self-atomizing bottle, it creates shimmering highlights, which enhance the depth of waves and brighten curls. In gold, red gold or silver tones, it is easily removed by brushing or shampooing.

★ The design for the bottle is registered under British Design No. 864,431. Moreover patents for the process, bottle and its contents are pending in the United Kingdom, U.S.A., Canada, Australia, France, Belgium, Italy and all other important countries throughout the world.

ISSUED BY STEINER 66 GROSVENOR STREET, LONDON, W.1

# GLANOID

## L.I.R.B.M.

Combining Liver Extract,  
Ferri et Ammon Cit. Red  
Bone Marrow and Extract.  
Malti Liq.

An ideal nutritional adjuvant and  
hæmatinic tonic for infants,  
children and adults.

2 oz. bottles, with dropper,  
4 oz., 8 oz. and 16 oz.

DISPENSING PACKS:  
40 oz., 80 oz. and 1 gallon

THE ARMOUR LABORATORIES  
(ARMOUR & COMPANY LTD)

LINDSEY STREET, LONDON, E.C.1

Telephone: Clerkenwell 9011

Telegrams: "Armosata-Phone," London



**Sells fast  
sells  
profitably**

# BESCO *shampoo* EYE SHIELD

*Simple, Safe, Cheap*

Nationally  
Advertised

Trade buy at  
24/- per doz.,  
plus 33½% P.T.

Much-needed, simple, safe  
and cheap... the BESCO is  
all these things. Well backed  
by national  
advertising  
this eye shield  
is areal winner.  
Sample sent  
on request.

**3/9**  
RETAIL PRICE

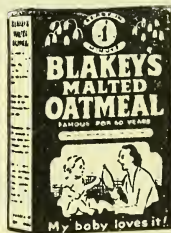
**BESCO CO., Hill Street, Rochdale**

## TWO WAYS TO HEALTH —

### Blakey's Malted Milk

A delightful and nutritious  
drink whether made with  
water or with milk. Aids  
digestion and encourages  
deep refreshing sleep.

1 lb. tin 3/11



### Blakey's Malted Oatmeal

Known for 60 years as  
the ideal cereal food for  
babies and invalids and  
enjoyed by the whole  
family.

½ lb. carton 1/2  
1 lb. tin - 2/6

★ COMMENCING 1952 ★

Eight leading women's magazines will  
carry advertising to help you sell  
B.M.O and B.M.M.

**BLAKEY'S FOOD CO. LTD., LINCOLN**

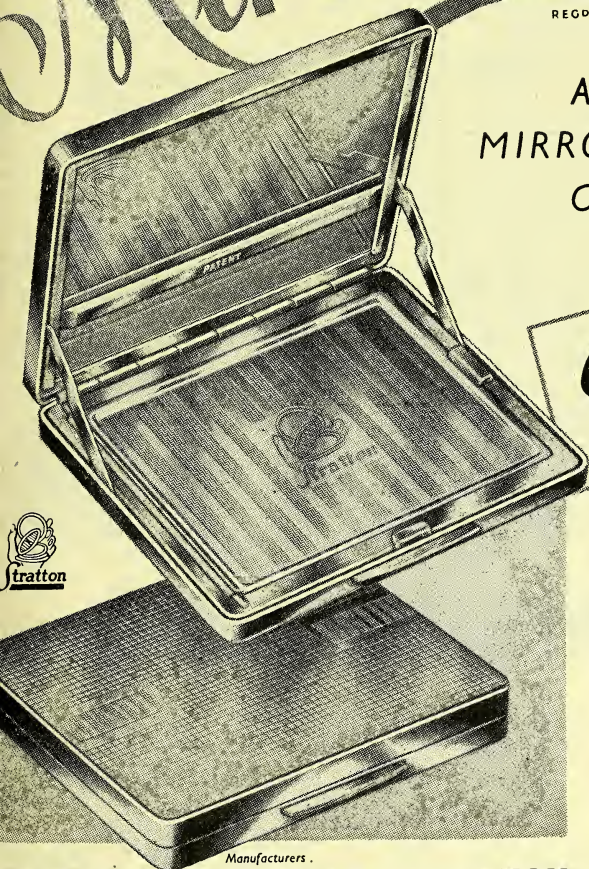
E YOUR WAY **CLEAR** TO BETTER SALES WITH THE

# Miracleclean"

REGD

AUTOMATIC  
MIRROR CLEANING  
COMPACT BY

## Stratton



Immediately you demonstrate the clever device that automatically cleans the mirror every time the compact is opened, the customer's interest is won—and held. This is an offer you should not miss—ask your wholesaler for details now.

In highly polished gilt finish, beautifully hand engine-turned, fitted with self-opening inner lid. Size  $2\frac{1}{2} \times 2\frac{3}{8}$ , also in a variety of other finishes. Samples on request from your wholesaler.

**ARRETT RAINSFORD & LAUGHTON**  
LIMITED

LOWER ESSEX STREET · BIRMINGHAM 5 · ENGLAND

TELEPHONE  
Dial 3771

LONDON OFFICE,  
100 DEAN STREET W.1.

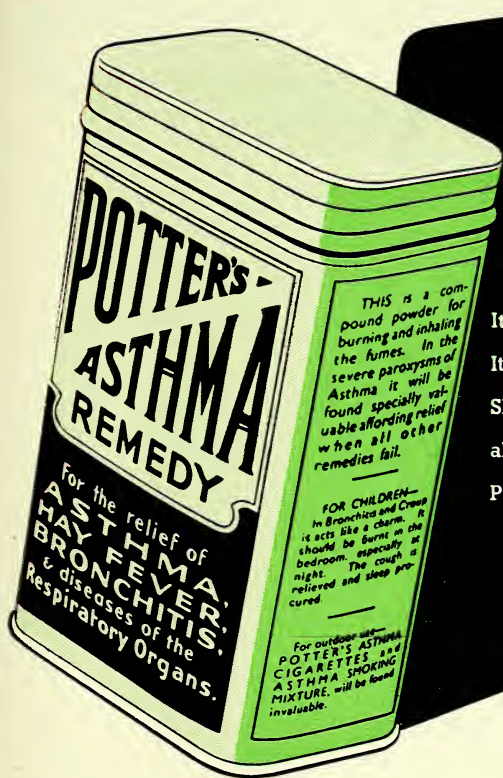
CABLES  
RAINSFORD B'HAM.

## DISPENSING SUNDRIES

**MACDONALD & SON LTD.**

**Ardwick 1561-**

# No shadow of doubt ...



It's nationally advertised.

It's P. A. T. A : Attractive

Showcards are sent with

all orders. Retail 2/9 inc.

P.T. 20/- doz. (P.T. 6/3 doz).



# ...about this BIG SELLER!

## POTTER & CLARKE LTD.

60-64 ARTILLERY LANE, LONDON, E.1

Phone : Bishopsgate 4761

Grams : Horehound 'Phone, London

77 DANTZIC STREET, MANCHESTER 4

Phone : Blackfriars 8734

Grams : Horehound, Manchester

62 ORBISTON STREET, MOTHERWELL

Phone : Motherwell 1413

Grams : Horehound, Motherwell

Agents for Northern Ireland :—H. Mitchell & Co. Ltd.,  
Grosvenor House, 321 Grosvenor Road, Belfast, Northern Ireland. Tel : 24356

# A new product— with a well-known name



Regular users of Vapex will be the first to appreciate this new, additional method of application. VAPEX PASTILLES will be found especially useful for colds associated with spasmodic cough or irritated throat.

The pack is in the familiar orange and black colour scheme, and here is the convenient display outer.

Give it space on your counter and link up with the wide-spread VAPEX publicity this winter.

Retail 2/- including  
purchase tax.

Trade 13/9 per dozen  
plus tax.

ISSUED IN DISPLAY OUTERS  
OF ONE DOZEN TINS.

**THOMAS KERFOOT & CO LTD**  
VALE OF BARDSLEY · LANCASHIRE

# an emergency case . . .

. . . diagnosed as an acute shortage of containers, threatens our supply lines. The only cure that can be prescribed at present is for you to store each empty container carefully after use, and until the C.R.S. van calls. In this way we can keep up the supply of goods to you—thereby defeating the threat to the trade caused by the lack of material available for the manufacture of containers.



## CONTAINER *recovery service*



S.P.D. LIMITED,

3-5 SALISBURY SQUARE, LONDON, E.C.4

## *A combination of qualities*

The claims of 'Dettol' do not rest on any single quality desirable in an antiseptic, but rather upon the combination of several essential properties. It can be used at fully effective strengths with safety ; that is, without risk of poisoning, discomfort or damage to tissue. It retains a high bactericidal potency in the presence of blood, it is stable, and agreeable in use.

# **'D E T T O L'**

## **THE MODERN ANTISEPTIC**

'Dettol' is available in 2 gallon and 5 gallon tins free of Purchase Tax for dispensing purposes only. Smaller sizes, including 1 gallon tins for public use, are subject to Purchase Tax.



*Muffler Time* is 'Kepler' time! And more and more mothers are coming to realise how valuable 'Kepler' is during the winter in providing extra nourishment, promoting sturdy growth and building up defence against infection. That is why, especially after the lessons learned from last winter's influenza epidemic, mothers will be asking you for 'Kepler'—not only for the children, but for the adults in the family, too! Make sure your stock of 'Kepler' is large enough to deal with this winter's demand; if it's not, you will be well advised to ORDER NOW!

**'KEPLER'** BRAND

COD LIVER OIL WITH MALT EXTRACT

*Protects the bodies it builds*

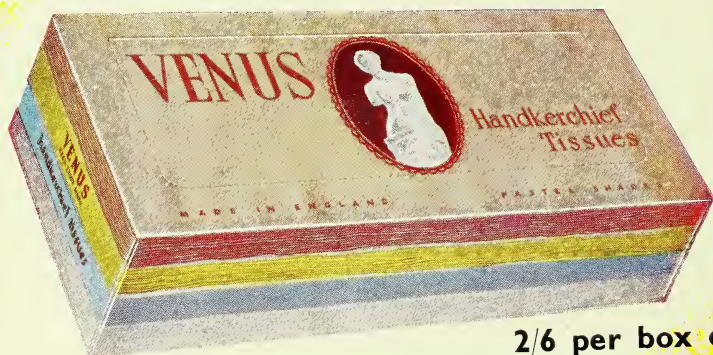


BURROUGHS WELLCOME & CO. (THE WELLCOME FOUNDATION LTD.), LONDON, N.W.1

# 'VENUS'

*first in the field...*

**with silky-soft Pastel Shade Tissues**



**2/6 per box of  
150 Tissues**

**The demand for Venus Handkerchief Tissues is sensational particularly so during the winter season**

*Keep an eye on your stocks and enjoy extra sales by ensuring a permanent display of these attractive packs on your counters and in your windows during the coming months.*



**Stocked by all the leading wholesalers**

**POPULAR PACK IN THE LAVENDER  
SHADE DISPENSER BOX  
in white or peach.**

★ Also Venus Paper Handkerchiefs in attractively designed cellophane envelopes

**THE HY-G-NIC PAPER HANDKERCHIEF CO. LTD.**  
GRANVILLE PAPER MILLS, BRETENHAM RD., LONDON, N.18  
TOTTENHAM 4648/9

**IMPROVEMENT  
OF BLOOD SUPPLY**

is the basis of treatment in

**MUSCULAR RHEUMATISM**

**Fibrositis, Lumbago**

**CHILBLAINS**

**TRAFURIL CREAM**

produces

**RAPID AND PROLONGED**

**INCREASE IN LOCAL BLOOD SUPPLY**

The soothing warmth  
reduces pain and promotes healing

*Non-irritant • Non-greasy • Odourless*

*Economical*

Tube of 20 g. (3/-) Jar of 1 lb. (39/-)

Retail Discount 33½%: Exempt from Purchase Tax

**CIBA**

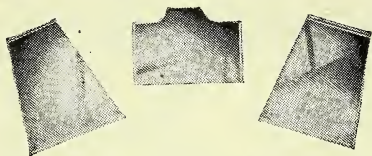
*'Trafuril' is a registered trade mark: Reg. user*

**CIBA LABORATORIES LIMITED**

**HORSHAM • SUSSEX**

Telephone: Horsham 1234

Telegrams: Cibalabs, Horsham



# REFLEX CAMERA MIRRORS

RE-SILVERED  
By Return of Post

**RE-ALUMINISED**  
In 2 to 3 Days

Send unmounted Mirrors  
only and pack securely

**GOWLLANDS**  
**LTD.**

MORLAND ROAD, CROYDON, SURREY  
Over half a century's experience of  
Mirror manufacture.



## REGULAR ROAD DELIVERIES

### ***In the West of England and South Wales Areas***

**The House in the West for all  
Chemists' Supplies**

Send us your orders for prompt and careful attention.

**FERRIS & COMPANY LTD.**  
**BRISTOL**

## Manufacturing and Wholesale Chemists

Telephone:  
**BRISTOL 21381**

Telegrams:  
**FERRIS, BRISTOL**

**GLYMIEL JELLY bonus offer**  
**closing date FEBRUARY 19, 1952**

Just a reminder to those of our friends who have not ordered their bonus parcels

**★ ★ 13 TO THE DOZEN (FOR 14 DAYS WINDOW DISPLAY) ★ ★**  
**4 SPECIAL PARCELS TO CHOOSE FROM**

### PARCEL "A"

**8 doz. 1s. 8d. size**

### PARCEL "B"

12 doz. 1s. 8d. size  
1 doz. 2s. 8d. size

### PARCEL "C"

**9 doz. 1s. 8d. size**  
**3 doz. 2s. 8d. size**

## PARCEL "D"

6 doz. 1s. 8d. size  
6 doz. 2s. 8d. size

**ORDER YOUR PARCEL NOW...**

From **SANGERS LTD., 258 EUSTON ROAD, LONDON, N.W.1**  
Branches at BRISTOL and NEWCASTLE



*Maintains its reputation*

for dependable efficiency and is the most popular Inhaler on the market. 'Benzedrine' Inhaler promptly and

effectively relieves nasal congestion with safety and without risk of side-effects. Display 'Benzedrine' Inhaler

on your counter—it will enhance the prestige of your pharmacy and increase your turnover during the coming months.

## **'Benzedrine' Inhaler**

*Trade price 18/- per dozen*

*Retail price 2/- each*

**MENLEY & JAMES, LIMITED, COLDHARBOUR LANE, LONDON, S.E.5**  
for Smith Kline & French International Co., owner of the trade mark 'Benzedrine'

Please note our Telephone Number is now Brixton 7851

# A smash-hit with the Trade!

## Tintex Dye-white

**DYES WHITE THINGS  
WHITER!**

The most astonishing line to hit the news in years . . . a *white* dye . . . *not* a bleach, blue or detergent . . . it gives cottons, linens, silks, woollens, the dazzling whiteness of fresh snow . . . materials rinsed in Dye-white stay white for four washes . . . and 'coloureds' come brighter than ever . . . an instant success with the press and the trade . . . stock up now and cash in.

Made by  
**Tintex**  
**DYES LIMITED**  
CROYDON

**THE CONVALESCENT  
THE NEURASTHENIC  
THE OVERWORKED  
THE AGED**

*They all need  
John Bell's  
Tonic Phosphates*

Presented in an easily assimilated liquid form, this well-proved combination of strychnine and the glycerophosphates quickly wins the patient's confidence through its pleasing colour and palatability. Tonic Phosphates restores appetite, increases energy, and improves bodily tone—ensuring for the generally debilitated a properly balanced return to sound health.

Order John Bell's Tonic Phosphates now, to meet the demand which regularly develops at this time.

### JOHN BELL'S TONIC PHOSPHATES

|                 | Retail price | Wholesale price |     |
|-----------------|--------------|-----------------|-----|
| 4-oz. size ...  | 2/6 ea. ...  | 19/4 doz. inc.  | tax |
| 8-oz. size ...  | 4/3 ea. ...  | 32/8 doz. inc.  | tax |
| 16-oz. size ... | 7/7 ea. ...  | 57/4 doz. inc.  | tax |



**JOHN BELL, HILLS & LUCAS  
LIMITED**

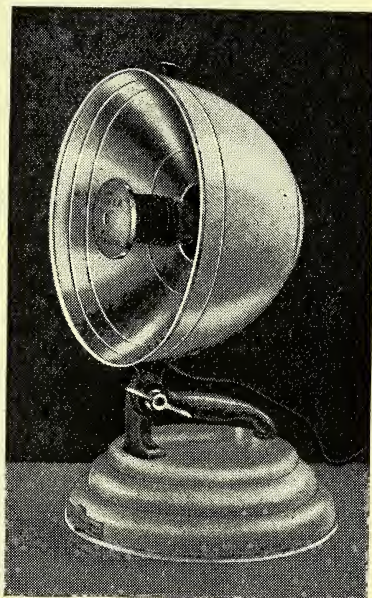
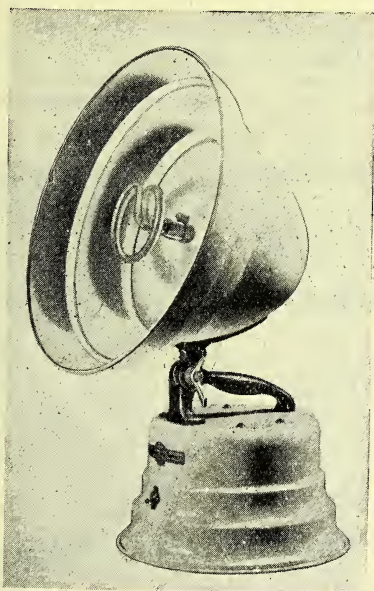
**Oxford Works  
Worsley Bridge Road  
London, S.E.26**

# Barber

## THE BETTER HEALTH LAMP

DESIGNED AND PRODUCED UNDER RIGID LABORATORY CONTROL

- Comprehensive range provides for Infra-Red Lamps from £5.5.0 to Combined Lamps at £27.5.0.
- Built from the highest quality materials by expert craftsmen.
- Generous trade discounts.
- No "After Sales" worries.



*Above:* Barber Mixed Wave Infra-Red and Luminous Heat Health Lamp. Model 315.

List Price **£5.5.0**

*Left:* Barber Ultra-Violet Health Lamp. Model 375.

List Price **£16.10.0**

*Write for illustrated leaflets to the manufacturers of the world's finest health lamps.*

### BARBER ELECTRICAL SERVICES LTD

LEACH STREET, BIRMINGHAM, 16

Telephone: EDGbaston 3511-12

# Experience gained throughout 150 years brings you **"RELIANCE"** FINEST DEEP SEA **SPONGES**



Being the largest bulk buyers of sponges, we are able to select the best of the crop—sponges of the finest texture; and our 150 years' experience in processing ensures for the chemist trade a product that its customers greatly value.

Attractive display materials, and interesting literature are at your disposal. Your enquiries will receive expert attention, and our representative will gladly call on request.

## CRESSWELL BROS. SPONGES

(World Natural Sponge Suppliers Ltd.)

SPONGE IMPORTERS AND EXPORTERS

INTERNATIONAL HOUSE

BUCK STREET, CAMDEN TOWN, LONDON

Phone: GULliver 5462-3

Telegrams: Sponge, Norwest, London

# MOTHDOOM

**has proved itself  
A READY SELLING LINE**

It is a pleasantly perfumed and absolutely stainless liquid which exterminates Moths, their Eggs and Grubs, and for which ever-increasing personal recommendations have created a rapidly growing

**INSISTENT PUBLIC DEMAND**

This reinforced by advertising in national publications, attractive leaflets, showcards, etc., and

**LIBERAL TRADE DISCOUNTS**

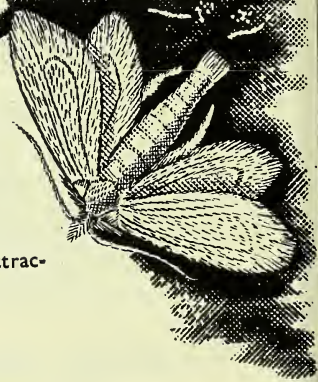
make it a most profitable line to stock.

Popular Sizes retail at 3/9 and 7/-

Bulk sizes from  $\frac{1}{2}$  gallon upwards also available.

Trade inquiries to:

**DAVID REID LIMITED**  
REIDEX HOUSE, ABINGDON ROAD, KENSINGTON, W.8





A. WANDER LTD. BY APPOINTMENT  
OVALTINE MANUFACTURERS TO H.M. THE KING

## Quality Products *from the* House of Wander

IN order to maintain the general excellence of Wander preparations, effort is not spared to apply systematically the latest discoveries of scientific research. Raw materials have been selected, manufacturing processes devised, and scientific control applied all with the same object in view. The 'Ovaltine' Research Laboratories, where Wander products are constantly under active investigation and development, are amongst the best of their kind, and are staffed by fully qualified scientists.

The 'Ovaltine' Factory in a Country Garden, the 'Ovaltine' Dairy Farm with its famous herd of prize-winning Jersey cows, and the 'Ovaltine' Egg Farm, are all evidence of the policy of excellence which animates the House of Wander.

*The following are a few of the many well-known Wander Products :*

### OVALTINE

The world's most popular food beverage. Because of its nutritive value and ease of digestibility, 'Ovaltine' is the food beverage most widely used in Hospitals and Nursing Homes everywhere. It is invaluable as a stand-by in cases of difficult feeding.

### VIMALTOL

A delicious, concentrated vitamin food prepared from malt extract, yeast, and Halibut Liver Oil, fortified with additional vitamins and minerals, and deliciously flavoured with orange juice. An important aid in the treatment of conditions resulting from the deficiency of essential vitamins in the diet.

### OVALTINE RUSKS

Delicious, digestible and nourishing. Prepared from the finest ingredients, including a proportion of 'Ovaltine'. They are a great aid and comfort to infants at teething time.

### MALT and OIL

Meticulous control and constant laboratory work maintain 'Wander' Brand Malt extract with Cod Liver Oil in the forefront of its class. The malt extract is specially prepared by A. Wander Ltd., who are acknowledged as leading authorities on its manufacture. The Cod Liver Oil is the finest obtainable. The product is pre-eminently acceptable to the patient by reason of its delightful taste. With all its special advantages, 'Wander' Brand costs no more than some malt and oil preparations with a lower vitamin content.

*Details of sizes and prices will gladly be sent on request.*

A. WANDER LTD., 42 Upper Grosvenor St., Grosvenor Sq., London, W.1.



SAMCO Atomisers and Sprays differ from types in general use in that each model is a Scientific Instrument specially designed to handle all types of spraying compounds without the necessity to adjust the nozzle of the instrument in any way.

Each instrument is manufactured and assembled to mathematically exact limits thereby assuring uniform performance.

Materials of the finest quality only are used and all components in direct contact with fluids are made of pure nickel, which is impervious to every known substance used in medical prescriptions.

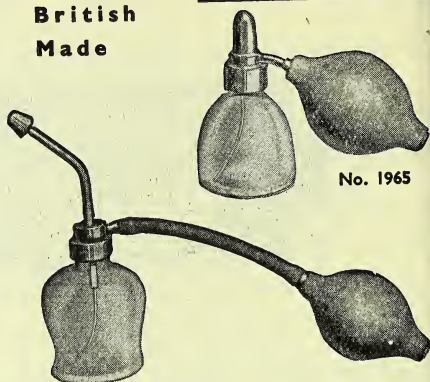
All components are heavily chromium plated.

All SAMCO models are pressure operated, thus ensuring complete atomisation.

ACTUAL MANUFACTURERS

Phone: EUston 1757 & 5514

Entirely **N.H.S. Patterns**  
British  
Made



Supplies available from your usual wholesaler . .

**S. MURRAY & Co. Ltd.**

45 ST. PANCRAS WAY . . . LONDON . . . N.W.1

*We invite you to write  
for this FREE BOOK*



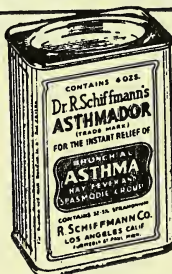
Most of the training necessary to qualify for a Diploma in Chiropractic can now be taken at home by specialised correspondence lessons. Fullest particulars of how to enter this highly-paid profession from:

**SCHOOL OF SURGICAL CHIROPODY**

(Dept. CD).

**LEATHERHEAD, SURREY**

## DR. R. SCHIFFMANN'S ASTHMADOR



for the Instant  
Relief of  
Bronchial  
**ASTHMA**  
Hay Fever and  
Spasmodic Croup

*The best selling line in America!*

Asthmador has given relief to hundreds of thousands of sufferers all over the world. As supplies are available in this country, a National advertising campaign has been launched, supported by a striking cut-out showcard container for counter and window display. Write now for trade terms to:—

**FASSETT & JOHNSON LTD.**  
86 Clerkenwell Road, London, E.C.1.

# Q.A.

## Quick Acting Aspirin Tablets



Q.A. Aspirin Tablets are made to disintegrate immediately they are swallowed, and begin to take effect at once.

Wherever Q.A. Aspirin Tablets are shown they become amazingly popular, sales steadily increasing year by year.

Sold by chemists only, they are very attractively packed and extremely profitable to sell.

Retail Prices:

Bottles of 25 1/3 including purchase tax

Bottles of 100 3/- including purchase tax

VERY EFFECTIVE DISPLAY MATERIAL IS AVAILABLE

SOLE MAKERS:—

**THOMPSON & CAPPER WHOLESALE LTD.**

Speke Hall Road, LIVERPOOL, 19.

**MACLEANS****LENS CLEANERS**  
*Cover the Nation**in***RADIO TIMES***The Nation's Shop Window*

*Over*  
**8,000,000**  
*readers of*  
**The Radio Times**  
*will see this*  
**advertisement**  
*for* **MACLEANS**  
**LENS CLEANERS**  
*Be prepared*  
*for a*  
**BIG**  
**DEMAND**

**If you wear glasses**  
Wonderful **SILICONE-TREATED**  
**MACLEANS LENS CLEANERS**  
bring new sight-help and eye ease



Keep your glasses clearer. Macleans Lens Cleaners wear away dust, dirt and grime the easy way. They give you the greatest wonderful new thing — the perfect clear vision. Eliminate eye strain. Dirty glasses cause eyestrain for you. Lens Cleaners clean your glasses thoroughly and keep them clear longer. Clean longer. Don't strain through foggy lenses. Keep your glasses really clear with Lens Cleaners and enjoy that full efficiency with the great relief and convenience this brings. There's a fine treat at your chemist. You will be delighted at the difference in your eyes. All who try them instinctively buy them. (For fine specialists)



YOU ARE HERE — and your better too!  
LONDON GREAT WEST ROAD BIRMINGHAM MANCHESTER



Advertisements for MACLEANS LENS CLEANERS are introducing this brand new product to the 8,000,000 families who read RADIO TIMES — the Nation's Shop Window. These advertisements in RADIO TIMES for a product with a very popular appeal will be seen all day seven days a week by a nationwide readership—so be prepared for a big call for MACLEANS LENS CLEANERS.

*Stock and display goods*  
*advertised in the*

**RADIO TIMES**

Member of the Audit Bureau of Circulations

Higham Advertising



## THIS "DISPENSER" WILL INCREASE YOUR SALES

Your customers will be immediately attracted by the 'Codemprin' dispenser-outer of 2 doz. tubes and by the new showcard.

**A bonus of 13 to the dozen is offered on orders of 2 dozen.**

★ Its price (1/3 for the tube of 10), its size (slips into handbag or pocket) and its effectiveness (contains four active ingredients), give 'Codemprin' a special appeal to the customer for whom aspirin is "not enough".

# 'CODEMPRIN'

TRADE MARK


BURROUGHS WELLCOME & CO. (The Wellcome Foundation Ltd.) LONDON

**PASTILLES  
LOZENGES  
CAPSULES  
OINTMENTS**

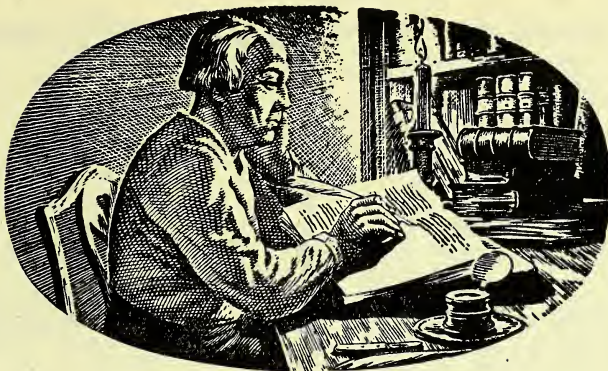


**... Our Job is  
the Manufacture  
and Packing of  
These Goods**

*... we do it well,  
as we should—  
after so many  
years experience*

**OUR ORGANISATION IS ALWAYS  
AT YOUR SERVICE**

**WARRICK BROS. LTD.  
WARREX LABORATORIES  
LONDON, N.1**



*And then the aether which I made,  
Claimed nearly all the aether trade  
Throughout the trading nation;  
And I with confidence might say,  
That none before me knew the way  
To do the operation.*

Thus in light-hearted doggerel verse Joseph Jewell (Luke Howard's foreman and later his partner) recorded his numerous and important chemical achievements. Luke, however, was less carefree in his method of expression. Ever since 1797, when he founded the firm of Howards, he recorded in great detail and with the utmost precision every laboratory experiment and every production process. The accuracy of his methods and the extreme care with which he recorded his work and his discoveries formed the foundation of Howards' character today—manufacturers of the finest chemicals.

Safe as

# HOWARDS

Bromides, Citrates  
Iodides, Iron Salts  
Bismuth Salts  
Sodium Bicarbonate



Lactates, Aspirin  
Salicylates, Ethers  
Quinine Salts  
Tablets—etc.—etc.

HOWARDS & SONS LTD • ILFORD near LONDON

THE  
SYMBOL  
OF



QUALITY  
AND  
SERVICE

*Aspirin Salicylates  
and Allied Products*

**Graesser Salicylates Ltd.**

**SANDYCROFT**

**NEAR CHESTER**

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Grams: Quality Chester

**JKL**

Agar Agar  
Aloes  
Cantharides  
Cascara Sagrada  
Cochineal  
Condurango Bark  
Ergot of Rye  
Grindelia Herb  
Liquorice  
Lobelia Herb  
Papain  
Peppermint Oil  
Sabadilla Seed  
Sarsaparilla  
Wild Cherry Bark  
Witch Hazel Leaves  
and all other Botanicals,  
Gums, Waxes, Essential Oils  
and Spices

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Graham House, 24 OLD BROAD STREET, E.C.2

Telephone: London Wall 4882, 6585, 6586

Telegrams: "Ergotine, Stock, London"

Branches in New York and Hamburg

## PUGET OLIVE OIL

Shipped by Ets. Adolphe Puget,  
Marseilles, France (Est. 1857).

Your enquiries are invited for all grades  
of edible, pharmaceutical and industrial  
olive oil in bulk and retail packages.

Sole Agents in U.K.

**R. H. AMAR & Co. Ltd.**

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Importers of  
fine Chemicals &  
Pharmaceuticals

**HALEWOOD CHEMICALS LTD.**

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AMB 4198 & 5457

## BURNSIDE'S EUCALYPTUS OILS

Distilled in Australia by the largest distillers and refiners of Eucalyptus Oils  
in the world.—W. K. BURNSIDE, PTY., LTD., MELBOURNE, AUSTRALIA

80/85% B.P.  
Oil Euc. Dives 40/45%  
Oil Euc. Citriodora

70/75% B.P.  
Piperitone 90/95%  
Oil Euc. Phellandria

..... Phellandrene .....

UNIFORMITY OF QUALITY      CONSISTENCY OF ODOUR

Agents for U.K.: **WILSON & MANSFIELD, LTD., 15 Philpot Lane, London, E.C.3**

Phone: MANSION HOUSE 9264-5-6

(WHOLESALE ONLY)

Grams: WYFIELD, LONDON

*The*  
**SPECIFIC AGENT**  
*against*  
**GRAM-NEGATIVE**  
**ORGANISMS**

**PHENOXETOL**  
P.E.L.G.  
N.I.P.A.

This important bactericide and antiseptic is a colourless viscous liquid with a faint pleasant odour, for use in medical treatment and for pharmaceutical preparations. Phenoxetol is especially effective against certain gram-negative organisms, including *Ps. pyocyanea*. It is used by local application—by wet dressing, instillation or irrigation—in the treatment of infected wounds, abscesses, indolent ulcers, associated with *Ps. pyocyanea*. It should not be used for parental injection.

Phenoxetol is very effective in pyocyanea infections of burns or superficial wounds. It is especially useful for skin grafting, in dermatitis associated with *Ps. pyocyanea*, and for the sterilization of tuberculosis cavities infected with *Ps. pyocyanea*. In addition to its anti-pyocyanea activity, phenoxetol is an excellent preservative for penicillin creams and other pharmaceutical and medicinal preparations. Not only does it protect the creams from deterioration caused by various organisms such as mould and fungi, but it also prevents the inactivation of penicillin itself by inhibiting the growth of *B. coli* and other penicillinase producing organisms.

The following formula is successfully applied

|                        |      |      |             |
|------------------------|------|------|-------------|
| For Penicillin Cream:— |      |      |             |
| Lanette wax SX         | .... | .... | 3.5 g.      |
| Liquid Paraffin        | —    | .... | 15 ml.      |
| Penicillin Solution    | —    | .... | 5 ml.       |
| Phenoxetol             | .... | .... | 2 ml.       |
| Aqua redest            | .... | .... | ad. 100 ml. |

also

Para-Chloro-Phenoxetol, the antifungous compound specifically active in ointments, powders and solutions against infections by *Trichophyton*, *Microsporum* and *Monilia* organisms.

**NIPA** LABORATORIES  
LIMITED

TREFOREST TRADING ESTATE nr. CARDIFF  
TEL. TAFFS WELL 128

Principal Distributors for the United Kingdom:

**P. SAMUELSON & CO.**

100, Queen Wall House, 1 Crutched Friars, London, E.C.3

Telephone: ROYAL 2117/8

**GUMSTRIP SEALING TAPE**  
**IN SHORT SUPPLY**

YOU CAN MAKE ONE ROLL—

DO THE WORK OF TWO

BY USING THE RIGHT LENGTH  
IN THE RIGHT PLACES

● **THE AUTOMATIC CUT**

By using one of the Camberwell Beauty Sealing Machines you avoid tape wastage. The Automatic Cut gives you the required length of Gumstrip correctly moistened for any carton or package.

● **THE MOISTURE CONTROL**

For a good stick it is essential that Gumstrip should have the correct amount of moisture. The moisture control unit ensures an even moisture distribution, because the water level is automatically maintained.

ISSUED BY

**SAMUEL JONES & COMPANY LTD.**

New Bridge St., London, E.C.4



BUTTERFLY BRAND



AN APPROVED METHOD OF  
*Family Planning*

**GYNOMIN**

Regular medical and national publicity will bring increasing demands to your pharmacy. Medical literature available to pharmacists on request.

The scientifically balanced, antiseptic and deodorant contraceptive tablet. Spermicidally efficient and recommended extensively by the medical profession.

**SPECIAL QUANTITY DISCOUNTS MEAN EXTRA PROFITS.**

|                                    |         |
|------------------------------------|---------|
| 3 doz. tubes at 31/6 per doz. less | 5%      |
| 6 doz. " " " " " "                 | 7 1/2%  |
| 12 doz. " " " " " "                | 12 1/2% |

Retail price 3/6 per tube of 12 tablets.  
Order from your wholesaler.



Manufactured by

**COATES & COOPER LTD**

PYRAMID WORKS · WEST DRAYTON · MIDDLESEX

**1d. saves £££**

A strip of Transoprint seals your packages securely against pilferers and makes tampering impossible. Experience proves it!

**TRANSOPRINT**  
STOPS PILFERING

**better than an insurance policy  
— it saves your goods!**

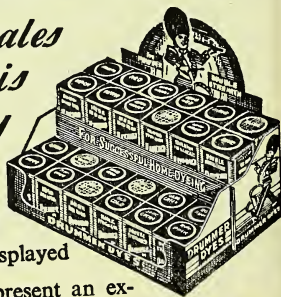
Write John Gosheron & Co Ltd Gayford Rd London W 12  
or telephone SHEphers Bush 3326

**GOSHERON TAPES**

SERVE INDUSTRY EVERYWHERE

**AN EXCELLENT REMINDER**  
*ready sales  
from this  
display  
pack*

The Drummer  
Dyes clearly displayed  
in this pack present an excellent point-of-sale reminder, and make an easy choice for your customers.



**DRUMMER DYES**

The World's finest Home Dyes  
WM. EDGE & SONS LTD., BOLTON





# The BEATSON MEDICAL

A bottle of quality. The retention of the vial lip for easy pouring is combined with all the advantages of modern design, including the elimination of internal sharp corners allowing rapid dispersal of sediment.

★ *Plain or Graduated  
Cork Mouth or Screw Capped*

**BEATSON, CLARK & CO. LTD**  
MANUFACTURERS OF CHEMICAL AND MEDICAL GLASS  
ROTHERHAM • Established 1751 • YORKS.

BC.68

**A Nationally approved selling line returns!**

# Ingram's

## AGRIPPA SPIRAL GREEN BAND TEATS & VALVES

PAT. N° 498456



Ingram's, famous for over a hundred years for their Surgical Rubber Manufactures, take pleasure in announcing the return of one of their Agrippa Teat series, the Spiral Green Band Teats and Valves. Nationally approved by nursing and clinical authorities and a best seller before the war, they are meticulously made from pure transparent rubber in four shapes, all of which are designed to ensure an even, natural flow. The special spiral band holds teats firmly on bottles and will not accidentally pull off. Each teat packed separately in a carton. Now being supported by press advertising which will be increasingly developed.

THIS TRADE MARK  
GUARANTEES THE QUALITY

## Ingram's LONDON.

**J. G. INGRAM & SON LTD., LONDON, E.9**

**'ACME' THE EVER POPULAR AND  
RELIABLE VACUUM FLASK**

in  
assorted  
colours

RETAIL prices:

1 pt. — — 5/6  
2 pt. — — 10/11

**JUG SET**  
Retail 19/9

**JUG only**  
Retail  
14 / 11

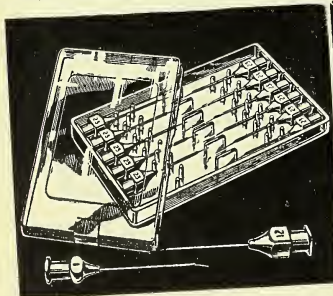


**ACME VACUUM FLASK CO.**  
PHOENIX WORKS, BRIDGEND, GLAM.

LONDON ADDRESS:—BALFOUR HOUSE, 119-125 FINSBURY PAVEMENT, E.C.2

FOR SCIENTIFIC AND MEDICAL GLASSWARE OF SUPERLATIVE QUALITY

**FRANCO-BRITISH**  
**GLASS CO. LTD.**  
15-17 KING ST., ST. JAMES'S  
LONDON, S.W.1  
TELEPHONE: ABBEY 4151



ALL SIZES

PROMPT DELIVERY

**STAINLESS STEEL**  
**HYPODERMIC and SERUM NEEDLES**  
BEST GERMAN MANUFACTURE

ALSO, PNEUMO-THORAX, BLOOD,  
LUMBAR-PUNCTURE, ANÆSTHETIC ETC.

Exclusive Distributors:—

**WHITLEY & CO. (MANCHESTER) LTD**  
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Phone: BLA 4340

Grams: Raven Manchester



DISTRIBUTORS:

G. HAVINDEN LTD.

71 BAKER STREET, LONDON W.1

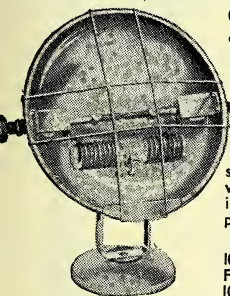
## HEALTH APPEAL

builds bigger sales

Housewives everywhere are catching on to the health story behind **Spicers AI** medicated toilet tissue. The new sealed wrapping is widely advertised and sales are on the up and up. See that you get your share of the profits. Stock and display **Spicers AI**. In rolls and flat packs.

## SOL-TAN

Switch on to Sunshine!



### CARBON-ARC 'SOL-TAN' ULTRA- VIOLET RAY SUN LAMP

'Sol-Tan' gives rich Ultra-Violet Rays as mid-day summer sunshine, invaluable in maintaining health and physical fitness.

Prices:

101TM Black & Nickel  
Finish £5.15.0  
104TM Cream &  
Chrom. Finish £6.10.0

Plus Purchase Tax.

Relief from  
Pain!

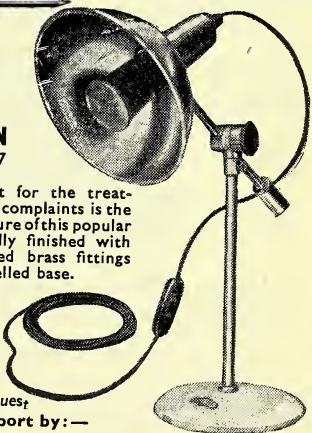
### 'SOL-TAN' CLINICIAN

Cat No. E.M. 27

Easy adjustment for the treatment of various complaints is the outstanding feature of this popular model. Beautifully finished with Chromium plated brass fittings and Ivory enamelled base.

Price  
**£8.18.0**

Tax Free  
Burners 30/- each



Fully illustrated Catalogue gladly sent on request,  
'Sol-Tan' Marketed for Home and Export by:—

THE LONDON COMMERCIAL ELECTRICAL STORES LTD  
20-23 CURSITOR STREET, E.C.4. • CHANCERY 6488/9

**REDUCED  
PRICES***of*  
**MENTHOL  
CONES**

• ALL PACKED in  
ATTRACTIVE DISPLAY BOXES  
OF ONE DOZEN. B. P. quality.

• FROM YOUR USUAL WHOLESALER, OR IN CASE OF DIFFICULTY APPLY TO US DIRECT  
**M. J. FECHER, LTD., 121 High Street, SLOUGH** Phone: SLOUGH 2186

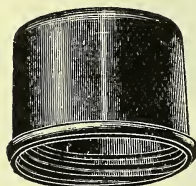


FIG. 378

**TALL SHAPE**

Supplied in four sizes

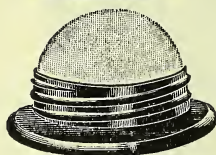
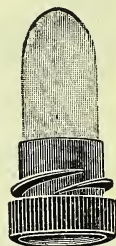
**9/6 — 10/-****11/6 — 13/-**  
per dozen

FIG. 374

**SQUAT SHAPE**

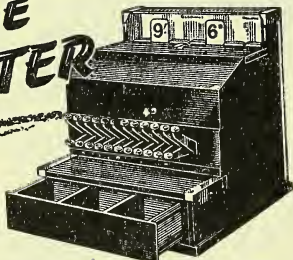
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per dozen

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THE  
BETTER**

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**GLEDHILL**British Made Cash Registers and  
Tills for every type of business**G. H. GLEDHILL & SONS**  
LIMITED  
24 Trinity Works, HALIFAX**GNOME****The  
ALPHA  
DE LUXE  
ENLARGER****2½ x 3½****MANY NEW  
FEATURES**

from

**£15.7.6**

including lens and tax

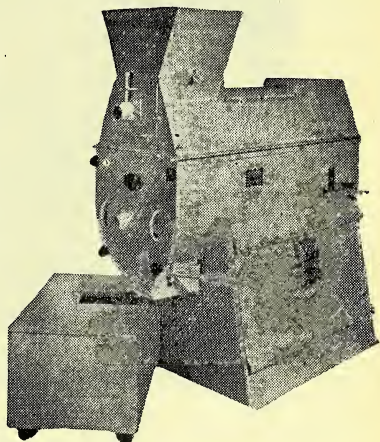
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for details**GNOME PHOTOGRAPHIC PRODUCTS LTD.**  
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IMPROVED MODERN RANGE OF MACHINERY  
BY

**GARDNERS**  
*of Gloucester*

Of considerable interest to Chemists and Druggists will be the announcement of a new range of Powder Processing Machinery redesigned to include every labour and time saving development of the past years. Of refabricated steel construction, consideration has been given to improved accessibility; easier cleaning out, maximum batch with a minimum floor coverage, low power consumption, with the Gardner reputation of over four generations for trouble-free running and exceptionally long lifetimes. Keep up-to-date with modern developments by writing for the latest literature.



**SIFTER/MIXER**

The type 'L' range is of robust steel construction totally enclosed for dust-free operation with in-built motor and drives. Brush, sieve and agitator removed for cleaning without disturbing drive. Oil impregnated bronze bearings. Special metals can be incorporated and a variety of agitators are available. Dust-free delivery boxes can be supplied.

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**BRISTOL ROAD · GLOUCESTER**

Telephone : 21261

LONDON : 1 Albemarle Street, London, W.1.

Grams and Cables : GARDNER GLOUCESTER

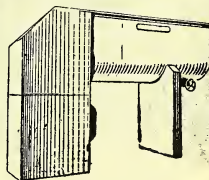
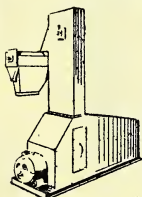
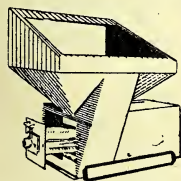
Telephone : GROsvenor 8206

**SIFTERS**

**FEEDER/ELEVATOR/SIFTERS**

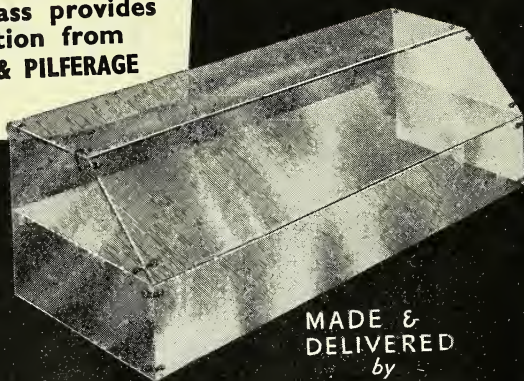
**VERTICAL MIXERS**

**'RAPID' MIXER**



Enterprising display  
under glass provides  
protection from  
**POLLUTION & PILFERAGE**

FULL RANGE  
FOR EVERY  
PURPOSE



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DELIVERED  
by

# WATERHOUSE

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*Vacuum  
Vessels*



Wide mouthed  
2 pint Vacuum Jar  
Model J.101

2 pint  
Vacuum Flask  
Model Q.F.

1 pint  
Vacuum Flask  
Model S.C.

1 pint Plastic  
Vacuum Jug  
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All the models in our range are fitted with VACCO refills of extra high thermal efficiency. This ensures minimum temperature change — hot contents keep piping hot and cold contents keep icy cold.

**MADE IN ENGLAND**

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BRAND

## *Chemicals & Drugs*

ADRENALINE  
AMIDOPYRINE  
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BROMIDE  
BENZOCAINE  
CHLORAL HYDRATE  
CREOSOTE  
DIASTASE  
EPHEDRINE

PANCREATINE  
PAPAIN  
PEPSIN  
PHENAZONE  
PIPERAZINE  
PROCAINE  
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## *Essential Oils*

Aniseed, Bay, Cajuput, Juniper,  
Peppermint, etc.

Terpeneless Oils and Isolates

We also manufacture a wide range of  
Floral and *Speciality* type bouquets for all  
classes of trades.

# CHAS. ZIMMERMANN & CO. LTD.

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WALMGATE ROAD, PERIVALE, GREENFORD, MIDDLESEX

Phone: Perivale 9121 (four lines)

Grams: Acidolan, Greenford, Middlesex

# SURGICAL DRESSINGS FOR

# N.H.S. DISPENSING

We supply a wide range of N.H.S./B.P.C. Dressings including the following

## ZINC PASTE BANDAGES

- |    |  |          |  |
|----|--|----------|--|
| 1. | ZINC PASTE BANDAGE B.P.C./N.H.S. "CELLANBAND"              |          |  |
|    | The original Unnas Paste type bandage. Note the length—    |          |  |
|    | 7 yds., this allows for the "stirrup" 4 ins. x 7 yds. .... | 27/- doz |  |
| 2. | ZINC PASTE BANDAGE N.H.S. "SANOID" 3½ ins. x 6 yds. ....   | 28/6 doz |  |
| 3. | ZINC PASTE WITH ICTHAMMOL BANDAGE N.H.S. "SANOID"          |          |  |
|    | 3½ ins. x 6 yds. ....                                      | 28/6 doz |  |

## ELASTIC ADHESIVE BANDAGES

- |    |  |          |  |
|----|--|----------|--|
| 4. | ELASTIC ADHESIVE BANDAGE B.P.C./N.H.S. "VARIBAN" |          |  |
|    | 2 ins. x 3 yds. ....                             | 40/6 doz |  |
|    | 2½ ins. x 3 yds. ....                            | 49/6 doz |  |
|    | 3 ins. x 3 yds. ....                             | 58/6 doz |  |

## DIACHYLON BASE BANDAGES N.H.S.

- |    |   |          |  |
|----|---|----------|--|
| 5. | ELASTIC ADHESIVE BANDAGE (DIACHYLON BASE) N.H.S. "SANOID" |          |  |
|    | 3 ins. x 3 yds. ....                                      | 58/6 doz |  |

## COTTON CREPE BANDAGES

- |    |   |          |  |
|----|---|----------|--|
| 6. | COTTON CREPE BANDAGES, N.H.S. "VARICREPE" |          |  |
|    | 2½ ins. ....                              | 28/- doz |  |
|    | 3 ins. ....                               | 33/3 doz |  |
|    | 4 ins. ....                               | 43/6 doz |  |

Prices quoted above are subject to certain quantity discounts. Details on application

Surgical Dressings List available on request

A PRODUCT OF

*Cuxson Gerrard & Co. Ltd.*

OLDBURY BIRMINGHAM

# Free

## PERSPEX Dispenser!

*for easier counter  
sales*



## Raywarp ahead!

**Order Today**  
from  
your wholesaler!

First of a new series of beautiful compelling sales aids—this Perspex dispenser is supplied free with every order for 2 gross nets. Your customers see and select without handling and damaging nets, and it's easier and more profitable to sell with Raywarp—ahead on quality—ahead on presentation.

*Designed to hold Raywarp's distinctive transparent packs for the following best selling lines:—*

- Super Strong Nylon—blue pack (N.1.)
- Invisible Silk—red pack (R.14)
- Nylon—green pack (D.2)
- Invisible Silk Bun Net—yellow pack (B.11)

**RAYWARP TEXTILES LIMITED**

**NOTTINGHAM**



# THE ORIGINAL



**Malt and Cod Liver Oil**  
with the flavour  
that **CANNOT** be copied

Sole Manufacturers  
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# NATIONAL

White Flint Glass Containers  
of Quality



## DISPENSING BOTTLES

1-oz. to 20-oz. Plain-  
Cork Mouth or Screw.  
Graduated—Cork  
Mouth only.

**RIBBED OVALS**  
Cork Mouth or Screw

**VIALS**  
½-oz. 1-oz. 1½-oz. 2-oz.  
& 3-oz. Medium or Tall.

## TABLET BOTTLES

Nos. 1 to 7½ sizes.  
**ROUND SCREW JARS**  
½-oz. 1-oz. 2-oz. 4-oz.  
Also Round Squat  
Screw Jars

1½-oz. 2½-oz. and 4-oz.  
**SCREW CAPS**—Black  
Bakelite, White Enam-  
elled Tinplate & Satin  
Finish Aluminium

## NATIONAL GLASS WORKS (YORK) LTD.

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WHOLESALE  
ONLY.



# Ortho the ethical name in Contraception . .



## Ortho-Gynol: contraceptive jelly.

Package A: 3 oz. tube, with Ortho Applicator.

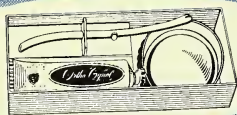
Package B: 3 oz. tube.



## Ortho-Creme: contraceptive cream.

Package A: 2½ oz. tube, with Ortho Applicator.

Package B: 2½ oz. tube.



## Ortho-Gynol Set: containing:

3 oz. tube of Ortho-Gynol

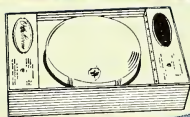
Ortho Diaphragm

Ortho Diaphragm Introducer

} in sizes 55 to 95

(in 5 mm. gradations)

**Ortho-Creme Set:** as Ortho-Gynol Set with tube of Ortho-Creme instead of Ortho-Gynol in sizes 55 to 95 (in 5 mm. gradations).



## Ortho Diaphragm Duo-pack: containing:

Ortho Diaphragm in sizes 55 to 95 (in 5 mm. gradations)

1 oz. trial size Ortho-Gynol.

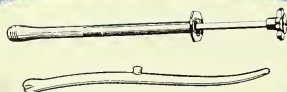
¾ oz. trial size Ortho-Creme.



## Ortho Diaphragm: coil spring, rubber diaphragm

sizes 55 to 95 (in 5 mm. gradations).

Strong, light, durable, the Ortho Diaphragm is a contraceptive device of outstanding quality and dependability. Each is packed in a permanent and beautiful plastic box.



## Ortho Applicator: for vaginal application of measured dose (5 cc.) Ortho-Gynol or Ortho-Creme.

## Ortho Diaphragm Introducer: individual introducers to accommodate diaphragms sizes 55 to 95 (in 5 mm. gradations)



Supplies through your usual wholesaler, please!

# Ortho Pharmaceutical Limited

HIGH WYCOMBE • BUCKINGHAMSHIRE • ENGLAND

*Makers of Gynaecic Pharmaceuticals*

**FOR HOME & EXPORT**

***Sulphadiazine***  
***Sulphanilamide***  
***Sulphathiazole***  
**in Powder**  
**and Tablet Form**

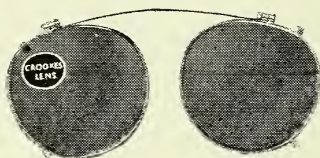


★ We can  
supply these  
and many other  
drugs advantageously.

**M·W·HARDY**  
**AND COMPANY**  
**(OVERSEAS) LTD**

**PINNERS HALL·GT WINCHESTER ST·LONDON·EC.2**

**TELEPHONE: LONDON WALL 7131**

**ORDER***through your wholesaler!***METAL CLIP-OVERS**

4 sizes, Crookes Lenses, 5/- retail

# Bartlett's 1952 Sun glasses

**THE BEST  
AND WIDEST  
SELECTION  
EVER!**

Once again our range of Sun Glasses leads all others in offering the latest and most fashionable styles which bring you maximum sales and profits.

British, French and Italian Sun Glasses with Crookes lenses—plastic and metal frames. Teenage and children's sizes, Clip-overs and a wide variety of styles and colours to retail from 8d. to 3 guineas.

Write now for our new illustrated folder.

**Alfred Franks  
and  
Bartlett Co. Ltd**

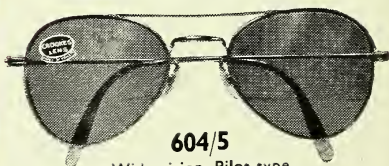
Audrey House, Ely Place, London, E.C.1

Telephone: HOLborn 1078 (PX)

All wholesale enquiries to this address please.

**652****PANTO SHAPE**

Choice of colours, Crookes Lenses 2/- retail

**16/17**Popular style for children  
2 shapes, various colours 1/11 retail**604/5**Wide vision, Pilot-type,  
Gilt or Nickel plated 12/6 retail**D MODEL**Blinker style, plastic Lenses.  
Choice of colours 1/3 retail

## A REPORT OF PROGRESS IN ASPIRIN THERAPY

## Stable Calcium Aspirin

1941-1951

**Calcium aspirin** is neutral, soluble and non-irritant; these therapeutic advantages over aspirin have long been recognised, but the compound being hygroscopic and chemically unstable, defeated all attempts to prepare from it a satisfactory tablet.

The problem was eventually solved in a novel way, at a London teaching hospital a decade ago.

The new tablet remained stable for prolonged periods, but in contact with water or the gastric juices, it reacted to form **nascent calcium aspirin**. The chemical stability and therapeutic excellence of the preparation were fully vindicated in the course of extensive experience.

Clinical Products Ltd. offer

**u n i p r i n**

TAB. CALC. ACETYLAL. SOLUB. (C.P.L.)

the original formula in elegant and palatable form

**uniprin** was introduced to the Profession early in 1951 and achieved an immediate success. This was a tribute alike to the care expended on formulation, and the prolonged clinical trial the product received before it was launched commercially.

**uniprin** offers soluble, palatable calcium aspirin—non-irritant and rapidly effective.

**uniprin** tablet contains 5 gr. aspirin in combination to form the nascent calcium salt.

**uniprin** is extensively mailed and advertised to the medical profession throughout the United Kingdom.

**uniprin** has no B.P., B.P.C., or N.F. equivalents and can be freely prescribed as it complies with the relevant recommendations of the Cohen Report.

**uniprin** makes an attractive counter line, showing an excellent profit, especially when purchased on special bonus terms.

**uniprin** packings:

Retail—40 tablets 2/3d. each (incl. P.T.)      Trade—15/3 per doz. (5/1d. P.T.)

Dispensing (Purchase Tax exempt)

100 tablets 3/- net    250 tablets 6/- net    500 tablets 11/4d. net    1000 tablets 21/3d. net

*obtainable from usual wholesaler or sole distributors in U.K.*

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(Tel. Aberdeen 27233)

*literature and samples available from Medical Dept.*

CLINICAL PRODUCTS LTD. RICHMOND, SURREY



# Portrait of a Winner...

The soaring sales of this remarkable new French Hair Colour Rinse show the enthusiastic welcome Coloral has received from women all over the country. If you are not stocking it you are missing rewarding profits. Show it — and it sells! Get a stock from your wholesaler now!

## **COLORAL** *Liquid* **HAIR COLOUR-RINSE**

Made in six shades :—Deep Brunette, Velvet Brown, Hazel Brown, Burnished Gold, Auburn, Steel Blue

RETAILING AT 1/3d. PER CARD OF TWO RINSES.

Packed and distributed in Great Britain by

GOLDEN LTD · 2/4 DEAN STREET · LONDON · W.1 TEL: GERRARD 4926



TRADE PRICE 6/- per dozen cards (plus 100% tax) in boxes of two dozen cards of any one shade, or in a fixed assortment of two dozen.

*Immaculate freedom for  
women who instinctively  
prefer the finest of all  
protection*

## MARIE

(Cotton wool)

AND

## SOLOUISE

(Soluble)

### SANITARY TOWELS

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**JASON & STUART PRODUCTS**

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Grams: JASON

**WELL-KNOWN FIRM OF  
TOILET ROLL AND  
INTERLEAVED PACKET  
MANUFACTURERS**

with large modern plant, will accept  
orders from Established Firms, at  
very keen prices for

## MEDICATED TOILET ROLLS

WEIGHT FROM 6 oz TO 12 oz

Highly glazed bands can be  
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(Established 1898)

# GREAT FLIT NEWS!

REGISTERED TRADE MARK

# GIANT BONUS OFFER



ON ALL ORDERS PLACED FOR  
FINAL DELIVERY BY APRIL 30th

HERE'S WHAT FLIT OFFERS YOU

EXTRA GENEROUS BONUS  
TERMS GIVING YOU  
EXTRA PROFIT

BIG FULL COLOUR  
COUNTER DISPLAYS  
THAT CREATE REPEAT SALES

GREATEST  
NATIONAL INSECTICIDE  
ADVERTISING IN BRITAIN

## 10% BONUS

on all orders of over £10 at list prices

## 7½% BONUS

on all orders of over £8 at list prices

## 5% BONUS

on all orders of over £5 at list prices

Bonus orders may include all sizes of Flit Insecticide, Flit Powder and Flit hand-sprayers. Flit Aerosols may also be ordered but are not subject to Bonus Terms and their value must not be used to make up Bonus Parcels.

Place Flit Bonus Orders direct or through your wholesaler TODAY.

|                            | LIST PRICES   | RETAIL PRICES |
|----------------------------|---------------|---------------|
| 8 oz. Flit                 | 15/- per doz. | 1/9 each      |
| 16 oz. Flit                | 25/- "        | 3/- "         |
| 32 oz. Flit                | 44/- "        | 5/3 "         |
| 160 oz. Flit               | 168/- "       | 20/- "        |
| 160 oz. Livestock<br>Spray | 105/- "       | 12/6 "        |
| Flit Sprayers              | 32/- "        | 3/9 "         |
| 2 oz. Flit Powder          | 8/- "         | 1/- "         |
| Flit Aerosol               | 65/10 "       | 7/6 "         |

# Important Announcement

AS from January 1st, the 6 oz. size Glyco-Thymoline will be reintroduced to the market, and the present 3 oz. bottle will be withdrawn. This is being done so that customers may continue to buy this product at the same cost per oz. in

spite of increased production costs. The two sizes that will be on sale are :—

6 oz.....retail price **3/10d.**  
(INC. TAX)  
16 oz.....retail price **7/8d.**  
(INC. TAX)

*Discounts to the trade remain unaltered.*

## GLYCO-THYMOLINE

REGD. TRADE MARK

*for affections of the mucous membranes*

Manufactured in England by KRESS & OWEN Limited · Distributors: Thos. Christy & Co. Ltd., Aldershot



**B. P. QUALITY**

Mag. Carb. Levis. · Mag. Carb. Pond.  
Mag. Oxide Levis · Mag. Oxide Pond.  
Mag. Trisilicate  
Mag. Hydrate. · Mist. Mag. Hydrox.

SUPPLIED THROUGH ALL WHOLESALERS  
BY THE SOLE MANUFACTURERS:

THE WASHINGTON CHEMICAL CO., LTD.  
(A MEMBER OF THE TURNER AND NEWALL ORGANISATION)  
WASHINGTON. COUNTY DURHAM

LONDON OFFICE:  
EVERITE HOUSE, 59, SOUTHWARK ST., S.E.1  
MANCHESTER OFFICE:  
74 PALMERSTON STREET, MANCHESTER. 12



· THE  
INVISIBLE  
GLOVE

**Stops dirt from getting  
into the skin**

**2/6 A TIN (Including P.T.)**

**ROZALEX**

Obtainable from your usual wholesaler

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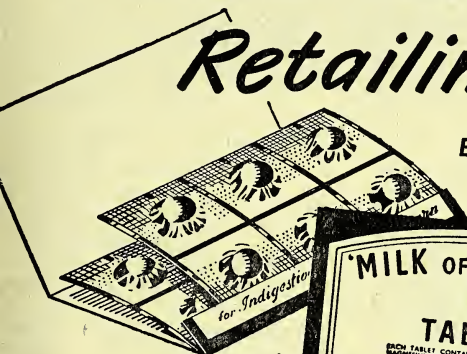
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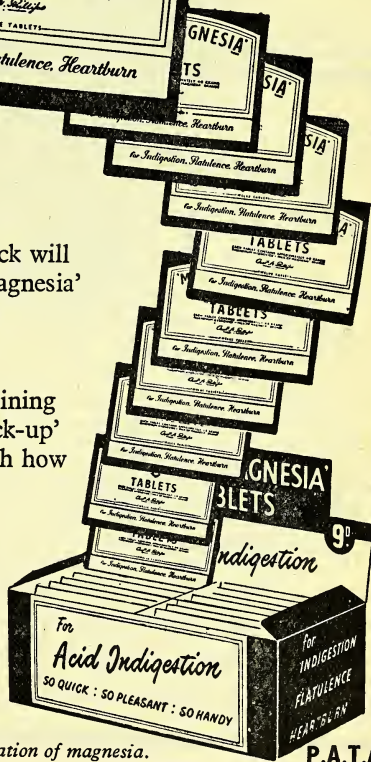
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28 ESSEX STREET, STRAND — LONDON, W.C.2

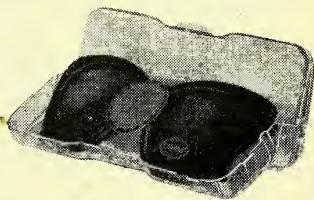
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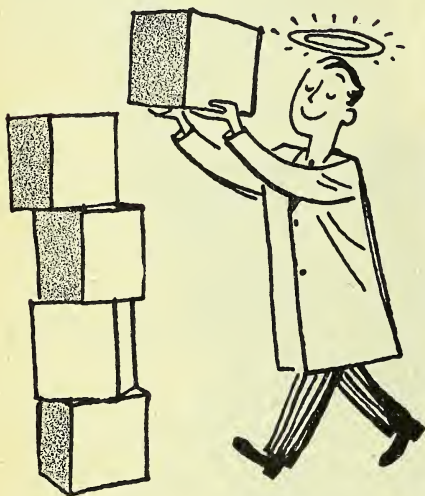
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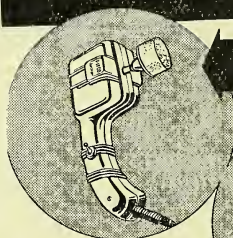
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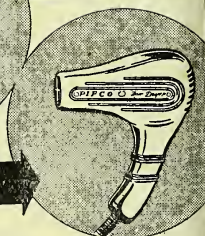


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The



# CHEMIST AND DRUGGIST

for RETAILER — WHOLESALE — MANUFACTURER

JANUARY 19, 1952

Published weekly at 28 Essex Street, Strand, London, W.C.2

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4 copies 1/- each. Annual Subscription, which includes The Chemist and Druggist Diary and Year Book, £2

Volume CLVII

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No. 3752

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## NEWS OF THE WEEK

**Retail Trade in November 1951.**—A survey of Trade figures show that average weekly sales by independent chemists during November 1951 were unchanged from October and 2 per cent. higher than in November 1950. Figures for large-scale sales were 9 per cent. and 13 per cent. higher respectively.

**Women Pharmacists' Nominations.**—Nominations for election to the committee of the National Association of Women Pharmacists, signed by two members of the Association and with the consent, in writing, of the candidate nominated, should reach the secretary (Miss A. P. McBride, Highbury Park, London, N.5), before March 1.

**Commonwealth Collections of Micro-organisms.**—A directory of collections of micro-organisms maintained in the British Commonwealth and a list of species obtainable from them has been published by H.M. Stationery Office, York House, Epsom, London, W.C.2 (5s.). Details of ninety-one collections are given, with types of organisms held and whether

they can be obtained on request, on payment of a fee, or as a personal favour.

**Token Import Scheme Modified.**—The Board of Trade announces that the token import scheme will continue in 1952 for imports from Canada and the United States, but at a reduced level. Detailed arrangements are being worked out and will be announced within the next few weeks. It has been decided to discontinue the scheme for the other countries that have previously participated in it. Imports of all goods on the token import list from the countries to be excluded are now licensed up to at least the token import level and the scheme for those countries has therefore been recently of academic interest only.

**Viruses in Nature.**—Discussing "The Place of Viruses in Nature," in the 1951 Leeuwenhoek lecture of the Royal Society in London on December 13, 1951, Dr. C. H. Andrewes, F.R.S., advanced six reasons for viruses being micro-organisms. Viruses, he said, 1, multiplied; 2, varied widely; 3, were chemically complex; 4, normally were

antigenic for their host; 5, formed a graded series; and 6, acted like parasites. If viruses were organisms, were they derived from larger parasites, or did they represent survivors of a primitive type of life? he asked. Approaching the subject ecologically he pointed out that viruses might cause disease or perhaps more usually latent infection when an intimate host-virus integration was a normal end-result. Viruses could be transmitted in the germ-plasm, or be concerned in causation of cancer. It might be possible to place viruses "in the scheme of things," he thought, without doing "too much violence" to existing biological ideas.

**Chemists Federation.**—The council of the Chemists Federation, at a meeting held on January 3, with the president (Mr. N. Dewey) in the chair, received copies of letters that had been sent to C.F. manufacturers and retailers giving preliminary information about the C.F. display fortnight to be held from October 20, and approved the show material to be distributed free to retailers for use during the fortnight. The council received a report on visits made by the outdoor representative of the Federation to chemists in the area of the Sunderland Branch, National Pharmaceutical Union. Ten members of council agreed that their names should be included in a panel of speakers who would be prepared to address meetings of chemists on C.F. matters. The council approved the addition of Formacaine to the schedule of the C.F. agreement of Therapeutic Products, Ltd. Other matters considered included the sale of C.F. products by unqualified traders, and amendments to the constitution and rules.

**Salaries of Students in Hospitals.**—The following salaries were agreed for pre-graduate students employed in hospital pharmaceutical departments, at a meeting of the staff and management sides of Committee of the Pharmaceutical Whitley Council held in London on January 9: Students holding the School Leaving Certificate (a) at the advanced level: First year, £145; second year, £170; (b) at the ordinary level: First year, £125; second year £150. (Boards of governors and management committees will not be able to apply the scales until official notification is received.) Further discussion took place on a claim for salary increases submitted by the staff side. The management side were informed of the disappointment felt by hospital pharmacists at the offer that

had been made in response to the claim (*C. & D.*, 1951.II.619). Both sides emphasised the desirability of reaching agreement by negotiation rather than reference arbitration, and some progress was made towards settlement of the claim. It was agreed to hold a further meeting on January 24 to try and reach final agreement.

**Examination Results.**—The following candidates satisfied the examiners in the Chemist and Druggist Qualifying examination of the Pharmaceutical Society January:—

#### ENGLAND AND WALES

|                        |                        |
|------------------------|------------------------|
| Alexander, Norman D.   | Lewis, Mrs. Joan M.    |
| Astbury, Geoffrey B.   | Mills, Brenda I.       |
| Bell, Charles          | Moss, Cecily E.        |
| Black, Thelma M.       | Newton, Philippa M.    |
| Briggs, Gillian A.     | Phillips, Shirley J.   |
| Clitheroe, Margaret M. | Porter, Joan D.        |
| Crowther, James B.     | Randall, Alan M.       |
| Denerley, John M.      | Rock, John T.          |
| Emerson, Leonard P.    | Stow, Albert G.        |
| George, Richard G.     | Tapp, Stanley C. C.    |
| Gwillim, Mary E.       | Taylor, Pamela J.      |
| Hodgkinson, Charles E. | Triplett, Donald J. S. |
| Jones, Joseph E.       | Verrall, John H.       |
| Jordan, Pamela         | Ward, Dorothy G.       |
| King, Michael F.       | Webber, Roy H.         |
| Knight, Violet M.      | Wilson, Maureen M.     |

#### SCOTLAND

|                       |                     |
|-----------------------|---------------------|
| Bennett, Mavis J.     | Pohl, June P.       |
| Cookson, Rosemary     | Riley, Donald K.    |
| Donalson, Ronald      | Rogers, Jean        |
| Fisken, Alexander G.  | Seath, Alexander    |
| Gaunt, Winifred       | Smith, Derek        |
| Gough, Douglas R.     | Smith, John H.      |
| Gray, Laura P.        | Snowdon, Derek W.   |
| Harrison, Elsie E.    | Thompson, Mary B.   |
| Hughes, Mary E. T.    | White, William      |
| Jones, Cledwyn F.     | Whitehouse, Mary W. |
| Keene, Bernard J.     | M. St. C.           |
| Lau, Mrs. Nancy C. S. | Williams, Roland    |
| Lavender, Gwendoline  | Wright, Michael E.  |
| McCann, James F.      | Young, Alan H.      |
| Milburn, Mary         | Young, Clarence E.  |

**Payment on Account.**—The Ministry of Health in a circular letter dated January 10, announced that a supplementary payment on account for the period June to December 1951 is to be made on the following basis: The payment to each contractor will be at the rate of 10 per cent of the total amount paid to him in the months July 1951 to January 1952, inclusive, by way of normal payments on account for prescriptions dispensed during the months June to December 1951. Where the contractor has been providing pharmaceutical services for part only of the period, the payment will be calculated accordingly. Rota payments, payment

of final settlement for previous months, special payments (e.g., for expensive drugs, etc.), previous general supplementary advances and additional specially authorised advances to individual contractors will be excluded from the figures on which the supplementary payment is based. Executive Councils have been instructed to make any necessary adjustment in the amount calculated, where it appears to them that net overpayment to a particular contractor might result over the period as a whole. The Councils will equitably allocate a proportion of the total sum calculated to each month of the period, so that that proportional sum will be set off against the total balance payment for that month when it is calculated. The amount of any overpayment remaining, exceptionally, unrecovered after settlement of the contractor's December account is to be deducted from the next following payment on account due to him. The supplementary payment will be made with the normal payment on account in February.

## LOCAL NEWS

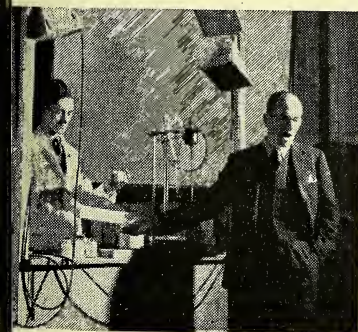
**Halifax Whist Drive.**—Halifax Branch of the Pharmaceutical Society held a whist drive and dance on January 3. Mrs. C. Wilson (wife of the president of the Pharmaceutical Society) distributed the prizes.

**Children's Parties.** — More than 150 children attended a Christmas tea-party and cinema show at the canteen of Opson Ltd., Wadsworth Road, Perivale, London, Middlesex, on January 5. —

Blackpool Branch of the Pharmaceutical Society held a children's Christmas party on January 9, at which more than sixty persons were present, including Mr. A. Greenwood (president of the Branch) and Mrs. Greenwood.

**Inaccurate Medicine Bottles.**—After the discovery recently of a discrepancy in the dispensing of a test prescription issued by Rotherham Executive Council, only one out of three bottles that were tested by the Council was found to be correct. The local Pharmaceutical Services Committee issued a report and the chairman of the Executive Council suggested that the inaccuracy of medicine bottles might be taken up by local pharmacists with the bottle manufacturers and with the Pharmaceutical Society. The Council endorsed the committee's recommendation to take no further action in the particular case before it.

**Dundee Members' Night.**—Dundee and Eastern Scottish Branch of the Pharmaceutical Society held a members' night recently, Miss E. M. Jenkins in the chair. Mr. M. S. Maconochie, speaking on "N.H.S. Difficulties," enumerated types of preparation that were a proper charge on the National Health Service, and explained the contents of the May 1950 Cohen report (*C. & D.*, 1950.I.644). Mr. D. McKiddie described how, in his own business, he had developed a profitable side-line in the sale of dog remedies. Mr. M. P. A. Macfarlane spoke on clan and clan-sept names, and Mr. W. Davidson gave a number of points to watch in ampoule filling. Mr. H. W. Caird proposed a vote of thanks to the speakers.



**INSTRUCTION IN PHOTOGRAPHY.** Left, Dr. E. E. Loening explains a property of photographic emulsion during the recent Christmas lectures to young people arranged by the Royal Photographic Society. Right, Schoolboys stop to listen to a talk on table-top photography at the stand organised jointly by Opson Ltd., and Johnsons of Hendon, Ltd., at the recent Schoolboys' Own Exhibition in London.

## IRISH NEWS

**President's "At Home."**—The president of the Pharmaceutical Society of Northern Ireland (Mr. H. W. Gamble) will be "at home" to members at 73 University Street, Belfast, on January 21 at 8 p.m. Short addresses on pharmaceutical matters will be given, followed by questions and discussion.

**Methylated Spirit Fire.**—Damage was caused to the shop of Mr. John D. Beckett, M.P.S.N.I., 12 High Street, Newtownards, co. Down, Northern Ireland, when a 4-gall. jar of methylated spirit was smashed near a lighted gas ring. An errand boy's clothing caught fire and he was taken to hospital suffering from minor burns.

**Health Service Tribunal.**—According to a written answer given in the Northern Ireland Parliament by the Minister of Health and Local Government, recently, no complaint against chemists had been referred by the Northern Ireland General Health Services Board to the Health Service Tribunal. The Tribunal had, however, upheld an application from a chemist for the removal of disqualifications imposed on him under the National Health Insurance Act, 1936, and from providing services under the National Health Service Act.

**Limerick Chemists' Dance.**—The Limerick Chemists' Association held its annual dance in Limerick recently. A limit originally placed upon the number of tickets issued had to be extended to enable many pharmacists from neighbouring counties to be present. Notable guests were the president of the Pharmaceutical Society of Ireland (Mr. J. P. Kissane), with Mrs. Kissane, Mr. H. P. Corrigan (treasurer), Mrs. Corrigan, and Mr. D. Woulfe (president, Irish Drug Association). The president's party and the visitors from Dublin were received by the chairman of the Association (Mr. P. J. Hogan) and members of the Limerick chemists' social committee. The hall was decorated with the crest of the Society and the arms of Limerick. A supper was served during the evening. Spot prizes included gifts sent by leading cosmetic, toilet and brush manufacturers. So great had been the response to the committee's appeal for prizes that some had to be raffled, and the committee thank manufacturers and wholesalers who sent cheques or gifts; representatives, agents and others who travelled long distances to make the event a success.

## PRICING REVIEWED AT SOUTH SHIELDS

A RECENT meeting of the South Shields Pharmacists' Association was addressed by Mr. G. H. M. Graham (a member of the Executive of the National Pharmaceutical Union) on "The Past Twelve Months." Mr. Graham gave an account of the negotiations of the various committees with the Ministry of Health on changes in terms, etc., and also of the difficulties in the pricing of prescriptions. Before the National Health Service it was estimated that one-eleventh of a chemist's takings represented his contract with the Ministry of Health. Now, he estimated, it represented a third to one-half of the pharmacist's business. He thought that the price staffs would work much better if they could realise that they were pricing current work, instead of knowing that there were another million prescriptions in arrears at the price. The work of the new pricing office in Newcastle, which employed a staff of seventy, to be increased to 200 when in full operation, had been made less trying by a new method of pricing. The staff were grammar school girls, and their performances were very creditable. One girl, after three months' experience, was pricing accurately 1,500 prescriptions per day against the usual average per staff of 600. He was alarmed at the steep rise in average prescription value as follows: 36d. in January, 1951; 42d. in May, and 48d. in June. A new fact-finding "poll" would be undertaken soon, when 600 chemists would be asked to co-operate and supply data. He hoped that there would be 50 per cent. co-operation, as the information supplied would be dealt with in strict confidence. The findings of the new survey would strengthen the hands of the negotiators when the case for increased dispensing fees came to be presented on March 1. Mr. G. I. Coulthard asked if Mr. Graham considered a charge of 1s. per prescription might be levied in the near future, whether legislation was in force or not, which it could be levied immediately. Mr. Graham stated that the 6d. charge per prescription, levied in the Isle of Man, had little effect on the number of prescriptions dispensed, but that the chemists there had found the container allowance scheme to be very unsatisfactory. Changes were necessary for a prescription charge to be accomplished by inserting regulation into the Act. Mr. Turner was in the chair at the meeting.

## TOPICAL REFLECTIONS

### Accepted Names for Drugs

The January London evening meeting of the Pharmaceutical Society (pp. 44-46) was the occasion of a stimulating address by Dr. Frank Hartley on the nomenclature of drugs. Pure science being indivisible, the naming of new drugs and chemicals is a matter of international concern; and Dr. Hartley has received well-merited praise for putting the subject in correct perspective. It will be remembered that Section 41 of the Pharmacy and Medicines Act, 1941, requires disclosure, in certain circumstances, of "the accepted scientific name, or other name descriptive of the true nature, of the substance, constituent, or ingredient" if that substance, constituent or ingredient is a statutory poison. The cumbersome length of many modern names for chemicals, poisonous or non-poisonous, has created a demand for short names. At various times I have discussed with people of various vocations this difficulty of poly-syllabic chemical terms. It is arguable that chemistry needs a Newton, a Linnæus or a Darwin to give it a new basic concept. It would result in the sweeping away of the present system of describing complex chemicals. Initially the new concept might be as difficult as the old: was not Linnæus ascribed as "the young man who has brought confusion into botany?" But the confusion might be lasting. Meanwhile, what is the best policy to pursue? As Dr. Hartley pointed out, the initiative in the adoption of approved names by the Pharmacopœia Commission came, early in the recent war, from British manufacturers. The Commission now exchanges lists of such names not only with the Council of Pharmacy and Chemistry of American Pharmaceutical Association (a natural procedure) but also with the Scandinavian Pharmacopœia Commission.

### Registered Names and Others

The international exchange of approved names is a necessary step. In the discussion followed Dr. Hartley's address, Dr. C. Hampshire remarked that what was common in English might not be so in other languages. To take an extreme example, a word sounding harmless in English might be vulgar slang in some Continental country. We can appreciate the speaker's point that approved names concerning some therapeutic or similar sugges-

tion are undesirable. The principle now favoured, that of indicating "something of the significant chemical groupings of the molecules," seems the most practical one. A case for the retention of registered trade marks for specific brands of chemical substances is well supported by evidence. In some foreign markets registration of a proprietary name "is dependent on obtaining a certificate of registration of that name in Britain." Even in the home trade, the inventor of a new medicament has an undeniable right to reap any benefit sanctioned by British law. Dr. G. E. Foster's interesting suggestion that manufacturers should be given the chance to surrender their rights in a trade-mark name, which could then become official, is, I fear, unworkable. So far as I remember, the nearest approach of the General Medical Council to this action appears to have been during the preparation of the 1898 British Pharmacopœia; in a footnote to the official heading "Phenazonum. Phenazone" it is stated that this chemical is commonly known as antipyrine.

### Two Years' Medical Research

Your abstract of the report of the Medical Research Council for the years 1948-50 (pp. 56-57) forms a companion picture to the research mentioned in this section a week ago. The increasing tendency towards medical subjects in the pharmaceutical curriculum renders a careful reading of this abstract desirable. The subject that attracted me most was the work on international standards at the National Institute in Mill Hill, London. I have often wondered for how long the type specimens of these standards are maintainable in full strength. Naturally everything is studied to ensure preservation; but after every precaution has been taken there must, one thinks, come a time when such complex organic substances may undergo deterioration. It is now stated that certain international standards have been replaced or are in course of replacement. The investigations into the common cold are of interest, but as reported do not appear to add significantly to previous knowledge. A good general practitioner already knows, empirically, a good deal about that subject. As might have been expected, radioisotopes have found various uses: more will no doubt be heard of progress in this department.

**Xrayser**

# NEW SCOTTISH DRUG TARIFF

A NEW Scottish Drug Tariff came into operation on January 1. The Tariff prices for drugs, etc., are based on the award of the Arbitration Tribunal on chemists' remuneration. The additional payment of 2.4 per cent. to chemists will therefore be made only in respect of forms dispensed in the period July 5, 1948, to December 31, 1951. The following are the alterations in method of payment:—

(a) Payment will be made for rota service at the rate of 7s. per hour on weekdays, and 12s. 6d. per hour on Sundays.

(b) An additional payment of 2s. per form will be made for a prescription form marked "Urgent" by the prescriber, and endorsed by the chemist with the hour of dispensing which, to qualify for payment, must be outside contract and rota service hours.

(c) Payment for water will be made only where distilled water has been prescribed or where its use is implied, e.g.: in all preparations intended for application to the eye.

(d) The prices in the revised Tariff are net prices calculated from the wholesalers' lists. The oncost allowance of 25 per cent. will be calculated monthly on the total net ingredient cost, and will therefore be shown as a lump sum.

(e) Amounts payable in purchase tax, previously added to the combined ingredient and oncost value, will be recorded separately, and shown as a total at the end of the statement of account. It has been agreed that where a medicament is available in a tax-free pack, the Pricing Bureau will price it on the assumption that it has been purchased in that form, unless the chemist specifically records otherwise on the prescription form.

(f) The container allowance of 2d. per prescription will also be calculated as a total.

(g) As no Tariff prices are quoted for trusses and elastic hosiery, the following information must be furnished on the E.C.10:—(1) Net cost price of the article; (2) Manufacturers' name; (3) Whether payment for measuring and fitting is claimed. If payment for measuring and fitting is claimed, payment for the appliance will be made at the net cost price plus 40 per cent.

The following arrangements for pricing prescriptions dispensed in 1952 have been agreed with the representatives of the chemists.

Group A: (i) All E.C.10's with a net ingredient cost of 4s. and over.

(ii) All E.C.10's with a prescription carrying a 5s. dispensing fee.

(iii) All E.C.10's with three or more dispensing fees.

(iv) All E.C.10's with an "urgent" fee.

Group B: All E.C.10's not included in group A.

Group C: All E.C.10A's (stock orders); E.C.14 (dental prescriptions); and R.B.P. (hospital prescriptions).

| MEDICAMENT   | DISPENSING FEE    |
|--|-------------------|
| 1. All proprietary medicaments whether in the original pack or dispensed from broken bulk. <i>Any quantity.</i>  | s. d.<br>1 2      |
| 2. Other medicaments if dispensed in packs as supplied by the manufacturer or wholesaler. <i>Any quantity.</i>   | 1 2               |
| 3. Tablets, pills, capsules, lozenges, suppositories, pessaries, plasters, bougies, B.P. or B.P.C. <i>Any quantity.</i>  | 1 2               |
| 4. Ointments, creams, pastes, confections, B.P. or B.P.C. <i>Any quantity.</i>   | 1 3               |
| 5. Powders in bulk and granules, official or official. <i>Any quantity.</i>  | 1 3               |
| 6. Mixtures, liniments, lotions, gargles, paints and all liquid medicaments for internal and external use. <i>Any quantity.</i>  | 2 3               |
| 7. Ointments, creams, pastes, confections extemporaneously prepared; including penicillin cream B.P. and penicillin ointment not of B.P. strength. <i>Any quantity.</i>                        | 2 3               |
| 8. Powders in bulk, and granules extemporaneously prepared. <i>Any quantity.</i>   | 2 3               |
| 9. Powders wrapped in separate doses and cachets.<br>1 to 6<br>7 to 12<br><i>Each extra doz. or part thereof</i>   | 2 6<br>3 0<br>2 0 |
| 10. Tablets, pills, lozenges, pastilles and capsules extemporaneously prepared. <i>Not exceeding 24</i><br><i>Each extra 2 doz. or part thereof</i>  | 3<br>2            |
| 11. Suppositories, pessaries and bougies (extemporaneous). <i>Not exceeding 12</i><br><i>Each extra doz. or part thereof.</i>  | 4<br>2            |
| 12. Plasters and blisters extemporaneously prepared. <i>Any quantity.</i>  | 4                 |
| 13. Ampoules and solutions, or suspensions of medicaments; penicillin drops and eye drops extemporaneously prepared with aseptic technique; sterile penicillin cream B.P. <i>Any quantity.</i> | 5                 |

Groups A and C and a random sample of each chemist's Group B forms will be priced in full each month. Negotiations are still proceeding with the representatives of the chemists on the percentage of

chemist's B forms to be priced, and a further memorandum will be issued before the end of January giving details of the method by which chemists should submit their Group B forms; forms falling into groups A and C should be bundled separately. Final settlement for each chemist's group A and C forms fully priced, and for group B forms at an average rate based on the priced sample of his own forms will be made in the second month following that in which the forms were dispensed. Thus no advance payments should be necessary.

It has been decided to withdraw from chemists with effect from January 1 until further notice, the option of pricing their Group A forms and receiving advance payments on their submission to the Executive Council. Therefore chemists who are pricing their Group A forms in 1951 will receive no payment in February 1952, since they will have received payment for their December forms in advance of all other chemists.

## LEGAL REPORTS

**Unlawful Possession.**—At Bradford court, recently, William Atkinson was found guilty to being in unlawful possession of Omnopon tablets containing grains of morphine. He was said to have obtained such tablets simultaneously from doctors in Bradford and Halifax. He was fined £50.

**Fire Pharmacy Act Fine.**—A fine of £10, with 20s. costs, was imposed by the district justice at Cork recently on Henry O'Neil, M.P.S.I., 71 Shandon Street, Cork, who was prosecuted at the instance of the Pharmaceutical Society of Ireland with a breach of the poison laws in having sold, in July 1951, strychnine in a preparation known as Caw, without having, before delivery to the purchaser, made the necessary entry in the poison register, and without having the entry signed by the purchaser.

**Isolated Sale of Weedkiller.**—Pleading guilty at March, Cambs, magistrates' court on January 8 to unlawfully selling a weedkiller containing a poison included in Part II of the Poisons List, Alice Minnie Trude Ogden, 78 The Avenue, March, who she was completely unaware of any regulations concerning the sale of poisons, pleaded not guilty to selling the weedkiller in a container that did not bear the name of the retailer and the address of the premises. Defendant explained to the

It has been agreed with the representatives of the chemists that 10 per cent. of each chemist's group B forms for six months shall be priced in full, and the average price per form so calculated applied to all his Group B forms for 1951. The Pricing Bureau will be fully occupied with current work early in 1952, and it may therefore be some time before the amounts due for 1951 are notified to the Executive Council.

The 8 per cent. provisional deduction will cease with payments for appliances supplied up to December 31, 1951.

### Dispensing Fees

In addition to the payments for drugs and the special allowances for containers, dispensing fees will be paid at the rates given in the table shown opposite. The table has been designed to result in an average dispensing fee of 1s. 6d. per prescription, prescriptions for appliances being included in calculating the average fee although fees are not paid on them.

court that she bought the weedkiller about two years ago, and the only tin she ever sold was the one bought by the inspector under the Pharmacy and Poisons Act. A fine of £1 on each charge was imposed, with £2 2s. costs.

**Actor on Drug Charges.**—After having been prescribed pethidine to relieve pain from the kidney disease from which he suffered, Leslie Coleman King, an actor, Warwick Lodge, Shoot-up Hill, London, N.W.2, was stated at Marylebone court, on January 14, to have become addicted to the drug. King pleaded guilty to four charges of procuring 1,200 mgm. of pethidine and one of attempting to obtain 1,200 mgm. without authority between Christmas Eve, 1951, and New Year's day, 1952, from 50 Wigmore Street and from Criterion Buildings, Piccadilly Circus. A detective-sergeant said that King, after twelve operations, had only about half a kidney left. His doctor prescribed for him 300 mgm. of pethidine a day to relieve the pain. He had obtained in addition prescriptions from other doctors and had presented forged prescriptions at chemists' shops to obtain four times the quantity prescribed by his doctor. The magistrate put him on probation for two years with the condition that he should go into an institution for a period.

## COMPANY NEWS

**IMPERIAL CHEMICAL INDUSTRIES, LTD.**—An offer of 10,093,023 ordinary shares of £1 each is being made to ordinary shareholders at 40s. 6d., each in the proportion of one new for every six units held.

**MR. ALBERT H. CLARK**, of Potter & Moore, Ltd., has been appointed chairman in succession to Mr. A. E. Pitt, and will be combining his new duties with those of the office of sales director which he has held for fifteen years.

**BOWMANS CHEMICALS, LTD.**—Profit for year ended October 31, 1951, after taxation was £33,713 against £11,281 in the previous year. A final dividend of  $7\frac{1}{2}$  per cent. (same), making  $12\frac{1}{2}$  per cent. (10 per cent.) for the year is recommended.

**DISTILLERS CO., LTD.**—The company is amalgamating its chemical interests in Australia with those of the Colonial Sugar Refining Co. of Australia. The new concern (C.S.R. Chemicals Pty., Ltd.), will produce cellulose acetate and a wide range of industrial and pharmaceutical chemicals.

**MONSANTO CHEMICALS, LTD.**—Mr. Edgar Monsanto Queeny has resigned from the board owing to business obligations in the United States. Mr. Queeny is chairman of the parent company (Monsanto Chemical Co., U.S.A.). Mr. L. A. Lewinton has been appointed a director.

**KORK-N-SEAL, LTD.** (A subsidiary of United Glass Bottle Manufacturers, Ltd.).—The following appointments have been made: Mr. H. St. J. Judd, chairman; Messrs. D. M. Anderson, A. Dumville and P. Jones, directors; Mr. F. Coward, secretary; and Mr. F. Jones, assistant secretary.

### New Companies

**S. WASDELL, LTD. (P.C.).**—Capital £5,000. To acquire the business of a chemist and optician, carried on by Sarah Wasdell, M.P.S., at 37 High Street, Quarry Bank, Staffs. Sarah Wasdell (permanent) and Joseph Wasdell, directors.

**A. M. DODGE, LTD. (P.C.).**—Capital £5,000. To acquire the business of a factor of hairdressers' sundries carried on as "Excel Supply Co." Albert M. Dodge is permanent director. R.O.: 10 Church Gate, Leicester.

**BURJAX (NORTHERN), LTD. (P.C.).**—Capital £2,000. To carry on the business of manufacturing, dispensing and analytical chemists and druggists, etc. Bernard S. Langton, M.P.S., and John W. Whittam,

directors. R.O.: 55 Rochdale Road, Manchester, 4.

**ST. AUBREY & CO., LTD. (P.C.).**—Capital £200. To carry on the business of manufacturers and distributors of dressing ointments, disinfectants, etc. Nigel A. Jones (chairman) and Milton A. Jones, directors. R.O.: Abernantygroes, Cwmnach, Aberdare.

**P. HAWKINS, CHEMIST, LTD. (P.C.).**—Capital £5,000. To carry on the business of wholesale or retail chemists, etc. Philip Hawkins, sen., Fanny Hawkins, Philip Hawkins, jun., and George W. Hawkins, directors. R.O.: 198 Quay Road, Bridlington, Yorks.

**ANGLO-FERRALYST CO., LTD. (P.C.).**—Capital £100. To carry on the business of manufacturers of chemical and other materials and to produce sulphur from hydrocarbons, etc. Paul Willert, Aristide Blanc and Murrough O'Brien, directors. Solicitors: Withers & Co., 4 Arundel Street, London, W.C.2

## BUSINESS CHANGES

**PEPSODENT (SALES), LTD.**, have removed to Bank Quay, Warrington, Lancs.

**MR. R. R. JEFFERY, M.P.S.**, has acquired the business of the late Mr. Derry at 17 Rolle Street, Exmouth.

The telephone numbers of J. Brummo 14 Seething Lane, London, E.C.3, will be Royal 4291 and 6201-2 from January 2.

THE OFFICE of the Deputy High Commissioner for the United Kingdom and the United Kingdom Trade Commissioner at Madras has removed to 2 Armenian Street, Madras. Correspondence for the Deputy High Commissioner should be addressed to: P. Bag No. 5038 and the U.K. Trade Commissioner to P. B. No. 1575, Armenian Street, Madras, India.

### Appointments

**RICHARD HUDNUT, LTD.**, have appointed Mr. J. S. Goff their representative in Warwick, Leics and the East Midlands.

**MR. C. H. NOTON, M.Sc., Ph.D.**, has been appointed joint general manager of Gatosan, Ltd., on January 1.

**HARKER STAGG, LTD.**, London, have appointed Mr. T. A. Cole their representative in South Wales and part of the W of England.

## MARRIAGES

**Golden Wedding.** — **CRAIGHEAD**—**HENDRY**.—At County Hotel, King Street, Aberdeen, on January 1, 1902, Peter Morrison Craighead, Palmerston Road, Aberdeen (see also p. 74), to Mary A. Hendry. The present address of Mr. Craighead is Kingshall Avenue, Aberdeen.

**GATES**—**DEVINE**.—At Eastwood Parish Church, Glasgow, on January 5, Joseph Almers, Gates, M.P.S., 105 Herries Road, Pollokshields, Glasgow, to Elizabeth Ark, Niagara Falls, Ontario, Canada.

## DEATHS

**BACON**.—On December 16, 1951, Mr. Albert John Henry Bacon, M.P.S., 193A Stoke Lane, Stoke Bishop, Bristol. Mr. Bacon qualified in 1918.

**JUDGE**.—On January 2, Mr. John Legge, M.P.S., 54 High Street, Biggar, Ayrshire, aged thirty-five.

**BURN**.—On November 10, 1951, Mr. Alexander Charles Burn, M.P.S., Windsor Stage, Spittal, Berwick-on-Tweed, co. Northumberland. Mr. Burn qualified in 1906.

**DEWAR**.—On January 4, Mr. William Dewar, M.P.S., 3 Warrington Road, Newle, Co. Londonderry. Mr. Dewar qualified in 1905 and, until he retired, was in business at Warrington Road.

**DUNLOP**.—On January 7, Mr. Thomas Johnston Dunlop, M.P.S., 159 Mottram Road, Stalybridge, Ches. Mr. Johnston, who qualified in 1900, had been employed by Boots, Ltd., for more than forty-five years. At the funeral at Manchester Crematorium on January 10, the Ashton-Lyne Pharmaceutical Association was represented by Mr. A. Gray; Stalybridge Chemists by Mr. C. H. Buckley; and Stalybridge branch of Messrs. Boots member of the staff.

**FOX**.—Recently, Mr. Abraham Denney, M.P.S., 1 Endsleigh Grove, Crosshill, Glasgow. Mr. Fox qualified in 1912.

**FRANCIS**.—On December 8, 1951, Mr. George William Francis, M.P.S., 94 St. Albans Road, West Ealing, London, W.13, aged forty-six.

**BUGLER**.—In hospital in New York, N.Y., on December 11, 1951, Mr. Raymond C. Gaugler (president, American Association of Chemists and Druggists), aged fifty-nine. Mr. Gaugler had been with the company since 1929 and a director since 1929. He was president in January 1951.

**GEORGE**.—On December 11, 1951, Mr. William Woosnam George, M.P.S., 462 Ashley Road, Upper Parkstone, Dorset, aged fifty-two.

**HAIGH**.—On December 22, 1951, Mr. William Slater Haigh, M.P.S., 9 Market Street, Woodhouse, Sheffield, aged sixty-nine.

**JANSSONIUS**.—In Amsterdam, Holland, on December 31, 1951, Mr. H. H. Janssonius, Pharm. Dr. A research worker specialising in wood micrography, Dr. Janssonius was in 1946 awarded the Hanbury Memorial medal by the Pharmaceutical Society of Great Britain.

**JOHNSON**.—On January 2, after a long illness, Mr. Thomas Reginald Johnson, M.P.S., 23 Melbourne Road, London, S.W.19. Mr. Johnson qualified in 1921.

**KENDALL**.—On December 11, 1951, Mr. James William Kendall, Rhuddlan Road, Meliden, Flintshire, aged eighty-five. Mr. Kendall qualified as a chemist and druggist in 1906.

**MACKAY**.—At Woodside, Gordon Loam, Corstorphine, Edinburgh, 12, suddenly on January 7, Mr. John Mackay, M.P.S. Mr. Mackay, who qualified in 1914, was formerly in business at 98 Pitt Street, Edinburgh, 3.

**MACKENZIE**.—At St. Ronans, 8 Hunters Hill Road, Bishopbriggs, Lanarkshire, on December 31, 1951, Mr. Donald George Mackenzie, M.P.S., F.B.O.A., aged seventy-five.

**MORSE**.—On November 30, 1951, Mr. Rowland Bennett Morse, Ph.C., 29 Danvers Street, Chelsea, London, S.W.3. Mr. Morse qualified as a chemist and druggist in 1906 and passed the Pharmaceutical Chemist examination in 1907.

**PARSON**.—On December 6, 1951, Mr. Mervyn Ernest Parson, M.P.S., 74 Mill Road, Cambridge, aged sixty-nine.

**REDFEARN**.—Suddenly, on January 12, Mr. Harold Wilson Redfearn, M.P.S. (superintendent of the Sowerby Bridge Industrial Society, Ltd.), aged fifty.

**WINDEMER**.—On December 15, 1951, Mr. Oscar Roxburgh Windemer, Ph.C., 86 Duchy Road, Harrogate, Yorks, aged seventy-seven. He is survived by his daughter, Miss Olive Windemer, M.P.S., who is in charge of the family business in Harrogate (see *C. & D.*, 1950.I.315) and was treasurer of the local committee of the British Pharmaceutical Conference, 1951.

## PERSONALITIES

MR. TOM WILLIAMS, M.P. (a former Minister of Agriculture) has been elected chairman of the British Rheumatic Association.

MR. HORACE WRIGHT, M.P.S., Edgware, Middlesex, for the fourth time in thirty years has redesigned the cover for the St. Lawrence's, Edgware, parish magazine.

MR. F. H. SWIRE, M.P.S., Halifax (a member of the Halifax town council), has been elected a governor of the Crossley and Porter Orphanage Schools, Halifax.

MR. A. L. HODGKIN, F.R.S., Physiological Department of the University of Cambridge, has been appointed a Royal Society Research Professor from January 1, 1952.

MR. J. G. BROWN (a director of the Thomas Hill Engineering Co. (Hull), Ltd., bottle-cleaning equipment makers) is leaving shortly on a business trip to India and other eastern countries.

MR. E. W. RANSOM (chief laboratory assistant, Scott & Bowne, Ltd.), who joined the staff of the company in December 1899, retired on December 31, 1951, from the company's emulsion laboratories at Southall.

MISS ESTELLE PRINCE, a first-year pharmacy student at the Royal Technical College, Glasgow, was chosen recently to represent her college in a "Charities Queen" contest in connection with a Glasgow students' charities week.

MR. B. LIPTON (managing director, Industrial Humidifiers, Ltd., Leicester) left Britain on January 18 for South America. He is also visiting Cherbourg, Lisbon, Las Palmas, Rio de Janeiro, Santos, Montevideo and Buenos Aires.

MR. DIXON TAYLOR, M.P.S. (a medical representative of Bayer Products, Ltd. London) was recently appointed captain of the Scarborough North Cliff Golf Club for 1952. Mr. Taylor will be glad to see any members of the pharmaceutical or medical professions visiting Scarborough during the season.

MR. A. S. W. JOHNSON, M.P.S., J.I. (managing director, Robert Drane, Ltd. chemists, Cardiff), has been appointed continuing visiting justice of the peace at H.M. prison, Cardiff, for South Wales and Monmouthshire. Mr. Johnson is also chairman of the General Commission of Incomes Tax for the City of Cardiff, with whom he has served for over twenty years.

MR. JAMES P. ROCHE, Ph.C.I., Orwell Park, Dublin (son of Mr. J. J. Roche M.P.S.I., a member of the Council of the Pharmaceutical Society of Ireland) won the Gevaert cup and a cheque for £500 awarded by the National Film Society of Ireland as first prize for the best film of 1951. The winning film, "Chosen Village," was a twenty-eight minute color documentary, with music and commentary. The "chosen village" was Lourdes, the famous French centre of pilgrimage.

MR. PETER M. CRAIGHEAD (managing director, William Davidson, Ltd., Aberdeen), who celebrated his golden wedding on January 1 (see p. 73), received from Mrs. Craighead gifts from the directors and staff of the company at a ceremony held in Aberdeen recently. Mr. Craighead was an office boy with the company at the age of fifteen and has served successively as cashier, secretary and director, becoming managing director in 1928. He is seventy-four years of age and has many pharmaceutical friends in North-east Scotland.

**Evening Standard**  
FRIDAY, JANUARY 11, 1952  
Three halfpence

Falmouth crowds gather to roar a welcome to the Men of Enterprise

**IT'S C and D DAY**

C. & D. Day? Well, very nearly. Copies reach many subscribers each Friday, though Saturday's date appears on the title page.

**CORONA**  
The Best Room Service

**The CHEMIST AND DRUGGIST**  
PUBLISHED WEEKLY AT 28, ESSEX STREET, STRAND, LONDON, W.C.2

## An open, empty leather-bound book. The cover is dark and textured. The interior shows a simple rectangular frame, possibly for a photograph or a drawing. The book is open, showing both the front and back covers and the central binding area.

don, N.W.I., are issuing to dealers and stockists two new full-colour Flit display-pieces, one of which is illustrated. The material is designed to tie up with the company's "greatest-ever" spring and summer national advertising campaign for Flit liquid insecticide containing DDT, Flit hand-sprayers, powder and aerosols. Orders for bonus parcels may be placed either direct or through usual wholesalers, but the makers draw attention to the need to apply early so as to be in time for the national advertising programme that begins in April. Details are given elsewhere in this issue.

# PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

A MEETING of the Council of the Pharmaceutical Society was held in London on January 8 and 9, the president (Mr. F. C. Wilson) in the chair. Apologies for absence were received from Messrs. E. A. Brocklehurst and A. A. Meldrum. It was resolved to send the Council's congratulations to Mr. Edward McPhee, M.P.S. (chief pharmacist, Northern Rhodesian Government) who was made an M.B.E. in the New Year Honours (see *C. & D.*, January 5, p. 9).

The report of the Education Committee was presented by its chairman (Mr. C. W. Maplethorpe). After a long discussion in committee, the Council rejected a recommendation from the Committee that the Leeds Branch and the City's Education Officer should be informed—in connection with an application for recognition for the teaching of pharmaceutical subjects at the proposed Leeds College of Technology—that the Council was unable to forecast what the needs of pharmaceutical education would be in 1960 (which was understood to be the earliest date at which the new College would be completed), and hoped it would be given a further opportunity of considering the matter in the light of the educational needs at that time. The Council passed as a substantive motion an amendment proposed by MR. G. SHAW accepting the offer of plans for a school of pharmacy in Leeds.

## Birdsgrove House Charges

Arising out of the discussion, at the November 1951 meeting of Council, on the charge for visitors, other than convalescents, at Birdsgrove House (see *C. & D.*, November 17, 1951, p. 652), MR. T. HESELTINE said that the Benevolent Fund Committee had felt unable to modify its recommendation unless the Council altered its decision that the charge should be £1 11s. 6d. per week per guest. The Committee therefore resubmitted its recommendation, and the Council agreed that the charge for visitors accompanying convalescents should be £1 11s. 6d. for a seven-day week, or 10s. 6d. per night, with a maximum charge of £1 11s. 6d. for any part of such week. Arrangements are being made for a visit to Birdsgrove House in connection with the British Pharmaceutical Conference's Nottingham meeting.

MR. T. REID (chairman of the Organisation Committee) reported that the vice-president (Mr. W. J. Tristram) had been

asked to call on Mr. P. A. White, M.P.S., St. Helens, to discuss the desire of a number of pharmacists in St. Helens to form a local branch, and to consider whether a satisfactory solution could be found that did not involve the formation of a new branch. The Council agreed that the name of the North-east Lindsey Branch should be changed to Grimsby and District.

## Benevolent Fund

The Benevolent Fund and War Aid Committee's report showed that grants amounting to £61 had been made to a member and a widow and the Council approved recommendations for grants amounting to £104 in two other cases. One application was deferred. Income in 1951 amounted to £13,684 (including subscriptions of £6,678). The corresponding figures for 1950 were £13,989 and £6,587. Grants made in 1951 totalled £5,566 (£6,692 in 1950). £3,500 was set aside for annuitants. Grants of £1,261 (against £721 in 1950) were made from the War Aid Fund.

The report of the Publications Committee, presented by its chairman (Dr. B. A. Young), stated that the 1952 edition of the National Formulary, and the Supplement to the British Pharmaceutical Codex, 1949, would be published by the end of March at 4s. 6d. and 25s., respectively.

THE REGISTRAR reported that since the previous meeting thirty-six persons have been registered as apprentices or students making 961 for 1951. Six pharmacists were registered under reciprocity arrangements (two from Northern Ireland and four from Victoria, Australia). The names of ten pharmacists removed from the registers in previous years were restored.

The Clerk of the Berkshire County Council wrote stating that the County Council had decided to terminate the present arrangement whereby the Society's inspector carried out inspection of listed sellers on behalf of the County Council under the Pharmacy and Poisons Act, 1933.

Following a complaint that paraldehydro should be subject to legal control, the Law Committee had asked the Society's inspectors to report upon the extent of the demand for that substance. Replies showed that there was no demand except in isolated cases, and it was decided that there were no grounds for proposing legal control.

## PHARMACEUTICAL SOCIETY OF IRELAND

THE January meeting of the Council of the Pharmaceutical Society of Ireland was held in Dublin on January 8, Mr. J. P. O'Sullivan (president) in the chair. Members present included Messrs. H. P. Corrigan (treasurer), J. J. Roche, G. C. O'Neill, T. J. Scott, A. A. Toher, P. Brooke Kelly, J. J. Robinson, Senator F. Loughman, Messrs. P. A. Brady, T. D., and J. A. O'Rourke. Mr. James G. Coleman, B.L. (registrar) was in attendance. Apologies for inability to attend were received from Messrs. M. Costello (vice-president), J. Gleeson, and P. F. McGrath.

THE PRESIDENT said they all regretted to hear of the death of Mr. James McCormack, Wexford (see *C. & D.*, January 12, p. 39). For many years he had served on the Council and was always interested in the affairs of the Society. On behalf of the Council he wished to express their deepest sympathy with Mr. McCormack's family. MR. BRADY associated himself with the president's remarks. The motion of sympathy was passed in silence, all members standing.

### Examination Visitors

Visitors were appointed to the forthcoming Licence and Assistants' examinations. Greetings were received from the Archbishop of Dublin; the presidents of the Pharmaceutical Society of Great Britain, the Pharmaceutical Society of Northern Ireland, the Irish Drug Association; the Commissioner and officers of the Garda Síochána; the editors of *THE CHEMIST AND DRUGGIST* and "*Pharmaceutical Journal*"; and the Irish Pharmaceutical Students' Association.

A letter was received from the Minister for Health approving the appointment of Mrs. Eva Philbin, M.Sc., as examiner in chemistry to the Licence examination for the year ending November 30. A second letter about the coming into operation of the Pharmacy Act, 1951, was held over for consultation with the Department. The Stationery Office wrote giving permission for publishing the text of the new Pharmacy Bill, 1951, in the Society's calendar. Mr. P. S. O'Brian (Irish liaison secretary to the International Pharmaceutical Students' Federation) wrote stating that at a meeting of the Federation held at Copenhagen in August 1951 it had been decided, first, to further international co-operation in pharmacy, and to raise the standard

of the profession, an effort should be made to introduce a "student exchange" system, upon which the Council's criticisms and suggestions were asked. The majority of the delegates at Copenhagen, Mr. O'Brian stated, had considered the following scheme to be most acceptable: that pharmacists and assistant-pharmacists should be allowed to exchange employment with their colleagues in other countries for periods of three or six months (not more than six months); that the pharmaceutical trade bodies in the countries concerned should be requested to give their active support to the scheme; that the governing bodies of colleges of pharmacy in those countries should be requested to allow such students to join their pre- and post-graduate courses; and that trade unions should be asked to remove any restrictions that would hinder such exchanges. The scheme would not interfere with the number of pharmaceutical workers: for each one who entered one would leave. The arrangement was temporary, and should tend to improve Irish pharmacy. To have members of its staff with Continental experience should be to the benefit of any firm. It was of course impossible at that stage, wrote Mr. O'Brian, to say whether or not the scheme would be applicable to Ireland at all, but it was worth trying. The Federation had informed him that an attempt was being made to formulate a list of employers, throughout the world (mainly in Europe), who would be willing to assist. He had written to the Irish Drug Association to request its co-operation.

### Exchange Discussed

MR. ROCHE thought the period of six months was rather short to gain Continental experience. MR. O'NEILL said he had met Mr. O'Brian as a representative of the I.D.A. and had pointed out certain objections employers might have. MR. TOHER was in favour of giving every consideration to the scheme. MR. BROOKE-KELLY agreed, and said if he were a younger man he would be glad to avail himself of it. They should not be insular in their outlook.

MR. O'ROURKE: It is an excellent idea, and anybody interested in pharmaceutical progress should encourage this exchange of knowledge and experience.

MR. SCOTT raised the question of whether an apprentice spending six months abroad could have such time counted as

part of his apprenticeship, and Mr. O'NEILL asked whether a pharmacist with, say, a French qualification could be regarded as legally covering a shop. THE PRESIDENT said that while he approved of the principle of exchange generally the matter was one to which they must give more consideration. He would not be in favour of having apprentices brought within such a scheme. The Council agreed that that would be undesirable. The Council decided in favour of the scheme, subject to the regulations of the Society being fulfilled.

The applications of Drs. Ann J. Fitzgerald and Nora Murphy submitting L.A.H. certificates and requesting to be registered as pharmaceutical chemists were granted. THE REGISTRAR reported on the deaths of Messrs. James McCormack, M.P.S.I., Patrick J. Killacky, L.P.S.I., Thomas F. Hinchy, R.D., and Thomas Sandford, R.D. An application by Mrs. Joan Gilna (née Carthy, L.P.S.I.) request-

ing change of name in the register of marriage was granted. The following changes of address were notified:—

Messrs. Bernard Feeney, M.P.S.I., to c/o P.C. Box 103, Nairobi, Kenya, East Africa; John A. Gleeson, M.P.S.I., to Shamrock Lodge Hotel, Athlone, co. Westmeath; Michael O'Connor, M.P.S.I., to 10 The Quay, Waterford; Richard H. Ladley, R.D., to 12 Lower George's Street, Wexford; and Hugh A. Hayes, R.D., to 11 Davy Street, Limerick.

The Registrar reported that six candidates sat for the Registered Druggist examination, that fifty-three candidates had entered for the January Licence and four teen for the Assistants' examinations.

The following were elected members of the Society: Misses Brigid Corrigan, Mary Duckham, Eileen Flynn, Messrs. John P. O'Brien and Michael F. O'Connor. The following were nominated for membership: Dr. Ann Fitzgerald, Riversdale Manorhamilton, co. Leitrim; Geoffrey T. O'Connor, Cahirciveen, co. Kerry; and George Robinson, Main Street, Donegal.

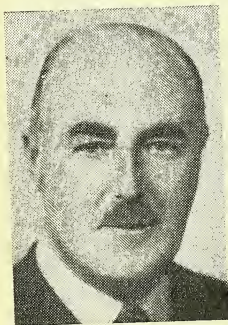
## THE LATE MR. O. F. C. BROMFIELD

WE regret to announce the death in Ewell, Surrey, on January 13, after a long illness, of Mr. Otho Frederick Charles Bromfield, F.C.S., Editor of

THE CHEMIST AND DRUGGIST, 1940-50.

Mr. Bromfield had been connected with the drug and allied trades since he was appointed secretary of the British Chemical Trades Association (now the British Chemical and Dyestuffs Traders' Association, Ltd.), in 1921. He commenced his associ-

ation with the paper in 1923 by sending weekly contributions to the Trade Report, and from about that time, until he joined the C. & D. staff as Market Editor in March 1931, represented editorially in London twenty-three overseas chemical journals. Appointed in February 1940 to the Editorial chair of the C. & D., he became shortly afterwards the founder-Editor also of the "Export Review." Serious illness caused him to retire in 1950, but he retained his interest in the paper and continued to be an occasional contributor.



Mr. Bromfield was president of the Bexley Division of the British Red Cross Society from 1947 until failing health forced him recently to resign. In 1929-35 he was a member and for two years chairman of the urban district council of Bexley, Kent, taking a particular interest in highways, sewerage, health and education (he was on the governing bodies of several local schools). He was also an active Freemason. During the 1914-18 war he landed in France with the first boat of the British Expeditionary Force, and served with the Royal Engineers (Cable and Wireless) in France and Belgium until 1918. Mr. Bromfield was sixty-two. He is survived by a son and a daughter.

Mr. H. A. Berens writes: I first met Bromfield in 1921. The British Chemical Trade Association had just been formed and we advertised for a secretary. We had some six hundred and fifty replies and "Brom" was our lucky choice. During his secretaryship the Association combined with the British Dyestuffs Traders' Association to become the British Chemical and Dyestuffs Traders' Association, with Bromfield as secretary. It was his indefatigable work, keenness and loyalty which laid the foundations of success of The British Chemical and Dyestuffs Traders' Association today. He was, I think, one of the most genuine men I have ever met.

he gave all that was best in him to whatever job he undertook, not only in the Trade Association, and later in THE CHEMIST AND DRUGGIST, but also in local politics as a member of the Bexley, Kent, Council and its chairman for two years.

His appointment as Editor of THE CHEMIST AND DRUGGIST was a great tribute to a grand fellow. During his Editorship the circulation of the paper reached record figures and I think that the directors of the paper owe Bromfield more than they may ever realise. His attributes were loyalty, sincerity and thoroughness, and he attacked all problems with a single-mindedness and concentration by which success is attained. He had a quiet, genuine approach to others which immediately inspired trust and confidence, and will be missed by his many friends in the Trade and elsewhere. At the height of a serious illness he lost his wife, yet he faced up to his trouble with a stoicism which was inspiring. In fact, it may be truly said that O.F.C.B. was:

"One who never turned his back  
But marched breast forward."

Mr. A. W. Edwards, M.P.S., writes: The news of the untimely death of O. F. C. Bromfield will come as a great shock to his many friends—even to those who knew of his poor state of health over the past two or three years. He was not the man to afflict his sufferings on his inquiring friends and the last letter I had from him a month or two ago dealt with quiet humour on a recent operation and spoke of the prospect of returning to some light occupation soon. I first met him around February 1924, when the British Chemical and Dyestuffs Traders' Association was founded. Bromfield was its first secretary and it was in a small measure due to his organising ability, tact and forthrightness that the Association fought through to success. He understood his fellow men and they respected his sterling character, wise judgment and flair for getting down unerringly to the essentials of a problem. And in those days, in that organisation, problems were many—and complicated! When in 1931 he joined the CHEMIST AND DRUGGIST the same thoroughness and conscientiousness marked his work and gave character and distinction to it. On first acquaintance I found a certain diffidence about him and it took time to know him but it was time well spent. He gained the respect which ripened into regard, and regard into affection. Recovery from his first illness was hampered by the tragi-

cally sudden death of his wife, who nursed him devotedly. To his daughter and son deep sympathy will be extended by many who—like myself—mourn the loss of a sincere, loyal and dependable friend.

Mr. E. W. Godding, M.P.S., writes: Mr. Bromfield was widely known to manufacturers, wholesalers and retailers throughout Britain, and his friends were many. During the time I was on the Chemists Federation Council I had many contacts with him and came to respect his wide knowledge on pharmaceutical matters and to appreciate his vision and imagination, which were always conditioned by an essentially practical outlook. His sincerity and integrity were beyond question. Those qualities were, no doubt, largely responsible for THE CHEMIST AND DRUGGIST becoming recognised as a force to be reckoned with in pharmacy, and for the progressive and dynamic contributions of its editorial pages. As editor of the C. & D. he was a champion of worthy causes, and pharmacists have good reason to be grateful for his vigilance and energy and for the influence he brought to bear, in many directions, on their behalf. The death of his wife, shortly after his first serious illness, was a tremendous loss, but his amazing vitality withstood what would have finished many lesser men. During his severe illnesses I never knew him not to find something at which to smile.

Our Dublin Correspondent writes: The news of the death of Mr. Bromfield has been heard with deep regret by a wide circle of friends in Irish pharmacy. During his yearly visits to Dublin to be present at the Benevolent Fund annual function, this genial, big hearted man made hosts of friends on this side of the Irish Sea. "Brom," as he was known to a few privileged friends, was an excellent ambassador to Ireland for the paper he had the honour to represent, and one of those kindly, understanding men, who in his own way contributed more to Anglo-Irish friendship than many of the politicians. Mr. Bromfield was more than one of nature's gentlemen; he was ever ready to do the big charitable deed. I have yet to meet a more valiant, cheery, uncomplaining spirit than Brom's in the last few weeks of his serious illness. Up to the last his letters to his friends here were those of a man of courageous and heroic mould. May his bright spirit enjoy peace, rest and refreshment as the reward of a noble soul whose memory will remain an inspiration.

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# The CHEMIST AND DRUGGIST

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L. CLVII JANUARY 19, 1952 No. 3752

## Paraffin Wax in the Home

AT there are risks in the use of paraffin wax for medicinal and other purposes at home is clear from a report published recently in the "Yorkshire Post." A bowl of wax had been put in the oven by an elderly couple, both sufferers from rheumatism, to melt it for use as a wax bath. The wax caught fire, and caused extensive damage, though the fire was eventually brought under control at the price of several burns to an outsider who answered the call for help. The moral for chemists is that, when they are asked for wax for physiotherapy purposes, they should supply a low-melting-point product (110-115°) instead of the B.P. hard paraffin (melting-point 130°), which is too hot, when melted, for the patient to use. The low-melting product is one of a range available from more than one manufacturer, and it is what chemists intend should be used for this purpose. To make a practice of supplying it when its intended use for physiotherapy is known should go far to lessen the risk of accidental burns.

## Four Transport Points

THE increasing hindrance of the 25-mile limit imposed by the Transport Act, 1947, on the activities of many hauliers has led to an increased use of vehicles under C hiring allowances. It will be recalled that a C licensee can obtain a C hiring allowance in respect of any number of vehicles, which have to be of a stated maximum laden weight. The law stipulates

that vehicles hired under such licences must be driven by drivers in the employ of the C licensee. In instances recently before the courts, in which road hauliers have been prosecuted for using vehicles beyond the radius allowed to them, they have contended that the vehicles were being used under such C hiring allowances, and that the drivers were employed by the C licensee. In some cases it has been further stated that the drivers had been engaged by the haulier acting as an agent for the trader. Many of the summonses have been successful, as it has been held that the drivers were not *bona-fide* employees of the C licensee.

Many pharmaceutical concerns have experienced difficulty in complying fully with the Railways (Carriage Paid) Direction, 1942, which makes it necessary for a sender of goods to be responsible for payment of carriage charges. The Railway Executive has refused to agree to demands to discontinue the regulation, but is now prepared to accept traffic, other than returned empties, with the carriage charges paid by a trader who is not the physical sender. The Executive stipulates that that method of payment can only be adopted by arrangement, and that the other trader must have a ledger account with them.

The recent further increase in railway rates by a flat 10 per cent. carried a proviso that no rate should be increased by more than 10s. per ton. Such arrangements as agreed charges, which lay down a flat rate for the carriage of a trader's traffic, have now to be examined to ascertain whether the statistics include rates now subject to the 10s. per ton maximum.

A case of some importance in transport law came before the courts in recent weeks. It concerned the work done by a driver employed by British Road Services, who were summoned for permitting the driver to exceed his legal hours. After completing the full legal driving spell, the driver involved had been engaged in work as a porter at a depot. The Road Traffic Act, 1930, lays down that any work done by a driver in connection with his vehicle must be counted as driving time. In this instance, however, it was held that the work

done by the driver was not in connection with any vehicle driven or about to be driven by him, and that British Road Services were not, therefore, guilty of a breach of the law.

## Towards Home Analgesia

THE survey of some 1,400 labour cases at the Rotunda Hospital, Dublin (see p. 95), again draws attention to the urgency of providing an analgesic that can be used without medical supervision. Trichloroethylene is readily portable, and has the advantages of not being inflammable or explosive, but, like other inhalation drugs, it requires for safe administration an apparatus that is proof against temperature change and shaking, etc., by the patient. In so far as the apparatus favoured by the Dublin doctors was heat-sensitive, its performance was below the ideal. They record, however, that so far they have had no reason to regret their temerity in putting a potent weapon in the "relatively inexperienced hands" of students—showing a high degree of care and common-sense on the part of the users. If that amount of caution continues to be exercised there will be justification for the Rotunda doctors' call for a wider trial of that type of home analgesia apparatus. In the meantime, the need for conducting adequate trials on new apparatus designed for use by midwives (such as was exhibited in London recently) and of elaborating a new analgesic for the purpose is not diminished.

## The Pharmacist and the Public

A REPORT concerned with consumer research and published recently by the Association of Scientific Workers ("Spotlight on Shopping," one shilling) deals with pharmaceutical preparations among other products. The Association accepts a need for more guidance to the public in the correct and safe use of proprietary medicines, but in suggesting means of providing such guidance appears to have little appreciation of the ramifications of the task. To suggest, for example, that the information on all consumer matters, including pharmaceutical, could be handled by ten information officers is unrealistic.

So far as pharmaceutical preparations are concerned the suggested testing branch of the centre, which would "help the consumer to make an informed choice," would also have an unenviable task considering how specialised a subject is medicine, and how widely doctors differ in their own views on the subject. The scope of the Medical Research Council's Therapeutic Trials Committee could with advantage be extended, but the transference to it of "power" to apply the trials to any product might alter in a sinister way the nature of the committee. The Association casts a patently unwarranted slur on manufacturers holding Therapeutic Substances Act licences in its statement that a manufacturer may use the "respectability" obtained from such a licence "to sell inferior products made by him but not under licence." To make such allegations is to vitiate any constructive proposals contained in the report.

## NEWCOMER'S NOTEBOOK

### 2. National Pharmaceutical Union

THE trade body of proprietor pharmacists. Need for new body to take care of the pharmacists' business interests became evident after famous Jenkin case (1911).

In 1920, a conference decided to form separate organisation for employers—provisional title Retail Pharmacists' Union; establishment completed in April 1921.

Name changed to National Pharmaceutical Union 1932.

Present offices in Queen Square, London, W.C. occupied 1926

Incorporates: Chemists' Defence Association Ltd., founded 1900; Chemists' Mutual Insurance Co., Ltd.; and Chemists' Sickness and Provident Society.

Functions: Acts as negotiating body with Government departments and other trade organisations. Provides independent employers' side of National Joint Industrial Council for Retail Pharmacy. Represents proprietor pharmacists on the National Chamber of Trade, Pharmaceutical Functions (Whitley Council) (Staff Side), Retail Distributors' Trades Conference, Early Closing Association and other bodies. Handles relations between employers and employees, and between employers and employers; trading conditions; the provision of benefits to members; and matters generally affecting the trading interests of pharmacists carrying on business as such (as distinguished from functions restricted by law to pharmacists). Present office until March 1953:—*Chairman of Executive*, H. B. Coulson; *Vice-chairman*, Mr. P. Varley; *Treasurer*, Mr. S. J. Stearn; *Secretary*, Mr. Noble.

# SMALL-SCALE MANUFACTURE OF INJECTIONS

By D. Etchells, B.Sc., Ph.C. (chief pharmacist, Christie Hospital and Holt Radium Institute, Withington, Manchester, 20)

## —Work Room and Equipment

IN designing a unit for the small-scale manufacture of parenteral solutions the aim of achieving minimum contamination from living organisms, pyrogens, foreign matter, etc., during the production process must be constantly in mind.

The cost of setting up a separate unit need not be great. Only a small area is required and the room should contain only a minimum of fittings, all accessible and easily cleaned. For preference the walls should be tiled, but high-gloss durable enamel paint is a satisfactory substitute: it can be cleaned easily with antiseptic solutions.

## Instructional Work

For an aseptic dispensary part of a large dispensary may be partitioned off with glass provided that no inaccessible ledges are made for dust to collect on. Windows should be sealed to prevent access of air, and the floor should be of hard composition or completely covered with strong linoleum. The workroom should be essentially an easily cleaned unit. Two sets of doors to the room are advisable. A light-proof door is a necessity. The space between them can be used for hanging clean gowns and rubber shoes, for changing outer garments. Normally a change of gown and shoes is sufficient, it being most important to change shoes in order to reduce the transmission of dust, etc., into the workroom.

In a small pharmacy air sterilisation by filtration, ionisation, humidity adjustment, ultra violet light cannot be attempted, there is no reason why clean air, free from foreign particles, cannot be obtained. Positive-pressure ventilation helps to reduce contamination, by minimising inward draughts. For an average size of workroom (say 10 x 6 ft.) a 6-in. Ventaxia fan gives an effective positive pressure. A filter of glass wool impregnated with a mixture of liquid and soft paraffin, covered by a layer of thin wool gauze fixed behind the fan frame on the room side removes much dust from the inlet air.

The air admitted, of course, cannot be guaranteed sterile. The wool-gauze filter may be lightly sprayed with a 10 per cent. aqueous solution of liq. chloroxol each time the room is used. The air should be drawn from inside the build-

ing, and the point of entrance should be away from the working bench.

The bench itself should be of the open type for simplicity and ease of cleaning. Experience has shown that a plastic-surfaced hard-board top is preferable to glass. It has a smooth, easily sterilised surface and is resistant to the normally used drugs and chemicals. A gas ring on  $\frac{1}{2}$ -in. asbestos sheet at one end of the bench suffices for all heating operations including autoclaving. The water service should comprise a household sink, fitted with one hot and two cold water taps—one for connection to the water vacuum pump. Operating-theatre-type tap-fittings are best, but not essential. There should be at least two gas points, fitted under the top of the bench, to avoid a break in the bench surface. Lighting is probably best supplied by a small fluorescent tube carefully placed, though the ideal arrangement is to use built-in units, even though they add to the cost. If a glass-partitioned section of the dispensary is used, external lighting is worthy of consideration.

Storage space inside the unit should be compact and easily accessible. A built-in cupboard is by far the best but any cupboard that utilises the wall of the room as the back prevents the possibility of dust accumulating. The cupboard is preferably situated away from the work bench. Plain, unupholstered stools should be used if necessary. The unit can be kept clean by frequent washing of the walls and ceiling with a 10 per cent. chloroxylenol solution. The floor should be constantly cleaned with 5 per cent. lysol in warm water to which a little detergent has been added. Frequent washing should be a routine.

## Equipment

The major items of equipment are the autoclave and hot-air oven. Small gas-operated autoclaves are readily purchased that embody automatic pressure release valves. The hot-air oven is rather more expensive, and for preference should be electrically controlled. Both pieces of apparatus are normally used inside the unit. On occasion, however, they may be used outside the unit except for sterilising equipment. The choice of still for preparing the official water for injection is important. Many suitable stills are on the market. All-glass automatic stills are

cheap and average an output of 1 litre an hour, which is sufficient.

Retort stands, clamps and bosses can be obtained of an alloy that resists most chemicals. (J. W. Towers, Ltd., Widnes, for example, supply a resistant stand with alloy clamps, which is elegant and withstands strong solutions of lysol, etc.). The range of glassware need not be large, but it should be of alkali-free resistant glass. Standard sets for the preparation of ampoules and multi-dose containers of solutions are readily made from ordinary glass equipment.

The balance and the dispensing screen complete the basic equipment. Where conditions permit, the preparation of the solution for packaging may be done outside the unit, otherwise the dispensing balance should be carefully swabbed and the solu-

tion prepared in the unit. It is advisable to keep constantly sterile a spare watch glass for the balance. Perspex screens are better than any constructed of wood and glass, and have the advantage of being more durable and easier to clean.

Pharmacists' personal requirements include rubber shoes (as indicated earlier). Gowns are preferable to laboratory coats for full protection from clothing is given up to the neck. One or two pairs of well-fitting fine rubber gloves are a necessity but for the routine preparation of solutions normally sterilised by some form of heat, the use of finger stalls is an advantage. A good nail brush constantly stored in 5 per cent. chloroxylenol solution serves to eliminate any likely contamination from the operator. The use of a mask at a times is to be encouraged.

## CORRESPONDENCE

### Pethidine as an Agreed Name

SIR,—In the *C. & D.* of December 15, 1951 (p. 789) you referred, under the title "Nomenclature, Nature and Chemical Structure of Narcotics" to the confusing variety of names under which the drug pethidine has been marketed throughout the world, and stated that, since 1945, the name demerol has been the name under which the drug is listed by the Drug Supervisory Body at Geneva. That is no longer true since, following representations made to that body in 1950, the name under which the drug is listed in the Estimated World Requirements of Narcotic Drugs for 1951 was changed to pethidine. Since 1951, therefore, the international name of the drug has been pethidine. So far as the western hemisphere is concerned, the name Demerol is regarded as the registered trade name of a particular company. As such, it should never have been adopted by the Supervisory Body in the first place.

Kingston, Jamaica.

R. M. DAY.

### Pharmaceutical "Snap"

SIR,—There are few English children or grown-ups to whom the game of Snap is not familiar, and the cards with which it was played must have changed frequently. The set of cards best known to me nearly eighty years ago comprised a phoenix cut from the cover of the then current *THE CHEMIST AND DRUGGIST*. This card was always known as *C. & D.* Another was the trade mark of Corbyn, Stacey & Co., taken from their price list. The original "bell

and dragon" was on the front of their premises in Cheapside and, after surviving the fire of London, was removed to Holborn. Today it may be seen in the Guildhall museum in London. Another card was culled from the Heron, Squire & Francis price list. A picture of a horse was provided by another wholesale house. Was it Meggeson's? So the game resounded with calls of "Snap"; "*C. & D.*"; "Corbyn"; "Heron!" and most possibly "Sweets" (for Meggeson's mixed acidulated drops were an annual present from old Mr. Hugill!)

London, N.2.

C. EDWARD SAGE

### Appreciations

PLEASE allow me to express my appreciation for the consistently helpful guidance and information I have derived from the comprehensive nature of trading and professional advice the *C. & D.* has always endeavoured to provide.—J.M.

I SHOULD like to express my appreciation of the regular way you have sent on a copy of the *C. & D.* during the past year (and I don't think there was ever a copy missing). That's a compliment to the G.P.O. too, I suppose. I am chief pharmacist at the Metropolitan General Hospital, Windsor, Ontario, Canada, and copies of your journal have circulated from my office to many friends in pharmacies and retail stores in this area, and have been greatly enjoyed. I hope some of the advertisers have derived a little benefit as well.

Stanley J. Johnston.

# NOMENCLATURE, NATURE AND CHEMICAL STRUCTURE OF CANNABIS

## 6. Cannabis

SURVEY of cannabis by Dr. R. J. Bouquet ("Bulletin of Narcotics," 4.14-30 and III.1.22-45) includes a study of cannabis intoxication. The author's data that link up the results of recent researches on the "marihuana" activity of dibenzopyran derivatives. The summary below combines knowledge of the uses of cannabis as an inebriant with problems connected with its suppression as a Dangerous Drug. It will acquaint pharmacists with the names of Indian hemp in different countries and those used in illicit traffic in the drug and its preparations.

### Cultivation of Cannabis

Indian hemp (*Cannabis sativa*, Linn.) is an annual dioecious herb, native to Jungaria (or Dzungaria) in Central Asia. It grows wild in its habitat along the Amur river. The plant has been cultivated for many centuries in temperate climates for its textile fibre and fruit (hemp-seed). In tropical countries it is grown for its resinous fruiting tops. The production of cannabis is a matter of habitat and climate. A multitude of pluriglandular resin-secreting hairs characterise the pharmacology of the fruiting (female) tops known as cannabis or Indian hemp. These pedicellate or sessile hairs have a hemispherical head of eight, twelve or sixteen cells which become filled with amber-coloured oleoresin as the fruits mature in tropical countries.

### Indian Hemp Resin or Hashish

CHARAS (or hashish), the resin of Indian hemp, is obtained from plants cultivated in Chinese Turkestan. The high temperatures and lack of moisture typical of the climate of that country result in an excessive production of glandular hairs. The resins exude spontaneously to form a sticky resinous coating which protects the developing seeds from desiccation. Collectors in leather coats gather this by passing through the tops in the heat of the day and removing the adherent resin with a blunt curved knife. The accumulation of sticky paste is kneaded by hand on heated copper pans to remove impurities and formed into sticks or cakes weighing 30 to 40 gm. (1 to 1½ oz.). This high-

est grade product has a granular consistency with a brown colour and agreeable odour. It darkens with age and loses its pleasant scent. This rare variety is produced in Sinkiang for licit export to India. It has the highest value in contraband trade carried on across the north-west frontier.

Cut and freshly dried fruiting tops provide second quality charas. The resinous product obtained by threshing is a greenish-yellow powder. After sifting to remove fruit and vegetable tissue, it is packed into cloth or skin bags, and softened by exposure to steam. On stacking under pressure the bags become flat packets with rounded edges weighing a half to two kilos (1 to 4 lb.). The blocks solidify into resonant resin which is brownish-grey in colour (or sometimes greenish). When cut, the resin shows a smooth and shiny surface. The fresh product has an agreeable odour.

CHIRA (or hashish of the Levant) is made in the same way from cut and dried tops. The flattened bags are known as "turbahs." For illicit traffic, chira is packed in thin linen bags and formed into "soles" (weighing up to 250 gm.) for hiding in smugglers' shoes. Charas (chira or hashish) contains about 40 per cent. of Indian hemp resin. Under the microscope, it appears to consist of (whole or broken) curved hairs embedded in shapeless lumps of resin mixed with fragments of vegetable tissue (from bracts and leaves). Cystoliths (calcium carbonate) and crystals (calcium oxalate) may be also present.

The resin is preferred for making "hashish" preparations. Electuaries of the "manzul" type containing about 10 per cent. of charas are formed into discs (1 cm. x 3 cm.) to be chewed slowly. Ma'agun, a sweetmeat of honey stiffened with gum arabic, is formed into pellets for swallowing. Their reputation as aphrodisiacs may be substantiated by the addition of cantharides or nux vomica.

"Hashish Kafur" for smoking consists of thin sticks (5 to 10 cm. in length) made from powdered charas with the addition of opium and aromatics. They are broken into small pieces for inclusion in cigarettes.

The supply of cannabis in its natural state is permitted in India, Tunis and

Morocco, but clandestine crops are grown for home use in many countries in which consumption of cannabis is forbidden. Smuggling into Egypt (from Syria and Lebanon *via* Palestine) and into the United States (from Mexico) are causing fresh efforts to extend international control to the suppression of cannabis cultivation for clandestine use and export. Indian hemp is the term used to designate the dried (resinous) fruiting tops of *Cannabis sativa*, Linn., cultivated in hot, dry districts of Asia, Africa and America. Production of resin requires absence of rain during flowering and fruiting. The fibre is short, brittle and practically useless. Hot, damp climates provide textile fibre from crop harvested before fruiting (and resin formation) takes place.

### Indian Hemp (or Cannabis)

*CANNABIS INDICA*, or Indian hemp of the 1914 British Pharmacopœia, consisted of the "dried flowering or fruiting tops of the pistillate plant of *Cannabis sativa*, Linn., grown in India; from which the resin has not been removed." Bengal cannabis (ganja), which may contain 8 to 12 per cent. of crude resin, is cultivated, collected and sold under licence in India to smokers of Indian hemp. The Indian Government announced in 1950 its intention to prohibit cultivation of cannabis for the purpose of obtaining ganja.

Indian cannabis from Bombay (known on the London market as "gauza") was formerly used for making (pharmacopœial) extracts and tinctures of cannabis. This less active form consists of flattened dull green masses of tops more or less compacted by resinous secretion.

Cannabis, B.P.C., may be either Indian cannabis or loose non-adherent tops from Africa or America, and may be cut into small pieces. Pharmaceutical preparations of cannabis have been used as a cerebral sedative and antispasmodic. Its use for this purpose (in conjunction with potassium bromide and chloral hydrate as pre-1940 liq. bromochloral. co.) has been abandoned owing to variability in potency and unreliability in action. The yield of extractive (to alcohol) is no guide to content of resin or of its activity.

Cannabis tops are prepared for smoking by removing stems, leaves and fruits and reducing the remainder to a coarse powder. The following names designate cannabis tops in different countries:—

### SYNONYM

Dagga  
Djamba, Liamba,  
Riamba  
Ganja  
Hashish el Kief  
Kabak  
Kif  
Maconha  
Marihuana  
Rongony  
Suruma  
Takkouri

### COUNTRY

South Africa  
Central Africa and  
Brazil  
India  
Lebanon and Syria  
Turkey  
Algeria and Morocco  
Brazil  
North America  
Madagascar  
Mozambique  
Tunis

New light has been shed during the last decade upon the chemistry of cannabis resin. This substance (known as cannabinone) yields on distillation *in vacuo* viscid red oil containing cannabinal, which resinifies on oxidation.<sup>1</sup> Originally it was supposed that the loss of activity in cannabis was due to an enzyme (oxydase) acting upon the cannabinal. The discovery that cannabinal is almost inactive results

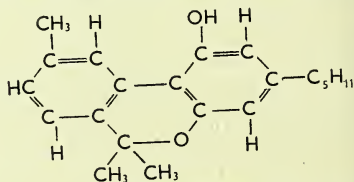


Fig. 1. Cannabinol  
1-hydroxy-3-n-amyldibenzopyran  
(6-hydroxy-2:2:5-trimethyl-4-n-amyldibenzopyran)

in a supposition that the activity remained in the oil. A second substance, cannabidiol, was isolated from the red oil of Minnesota wild hemp. This substance also possessed slight activity but could be isomerized into a "tetrahydrocannabinol" having the physiological activity of cannabis resin. In addition a tetrahydrocannabinol of high activity<sup>4</sup> was isolated in 1942 from cannabis resin. Finally it was concluded

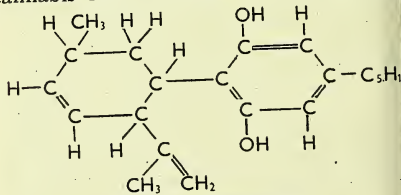


Fig. 2. Cannabidiol

that cannabidiol and cannabinal were products of the spontaneous dehydrogenation of tetrahydrocannabinol. Figs. 1, 2 and reproduce in graphic form the connection

tween the chemical structure of these three compounds.

Since 1940 various homologues and analogues of tetrahydrocannabinol have been synthesised and their "marihuana"

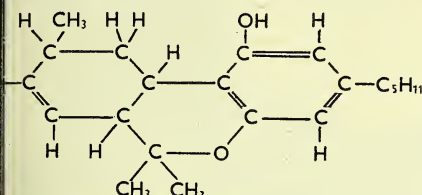


Fig. 3. Tetrahydrocannabinol

activities compared<sup>6</sup> in terms of *dl*-1-hydroxy-3-*n*-amyl-6:6:9-tri-methyl-7:8:9-tri-dibenzopyran. This synthetic euphont was resolved into its optically active components. The *dextro* form possessed 10 per cent. of the activity of the (racemic) standard. The *laevo* (natural) isomer with double bond probably at 7:8 (as in Fig. 3) is four to five times the potency of the *dextro* form.

Synhexyl (or parahexyl) is an (*n*-hexyl) homologue with a higher activity than the (amyl) reference standard. This syn-

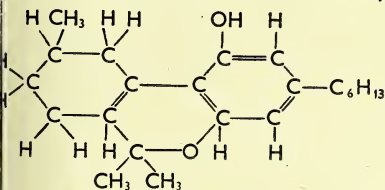


Fig. 4. Synhexyl (parahexyl)

thetic tetrahydrocannabinol (see Fig. 4) is pale-yellow, translucent resin, very viscous in consistency and free from odour. It is insoluble in water and soluble in alcohol and other organic solvents. Synhexyl has been used<sup>7</sup> as a euphoriant in the treatment of depressive mental states in doses of 15 to 90 mgm. Apart from the latent period (1½ to 3 hours), the "marihuana" activity of the synthetic resin is comparable with that of intoxication by an adequate amount of drug with a cannabis base (with effects felt not later than 20 hours after ingestion). The parallelism between cannabis intoxication (from natural resin) and marihuana activity (of synthetic tetrahydrocannabinol) is evident in a comparison of the four main phases of cerebral stimulation and depression.

#### CANNABIS INTOXICATION (BOUQUET<sup>8</sup>)

##### 1. Excitation

Sense of well-being; the consumer feels capable of extraordinary feats of prowess.

##### 2. Exhilaration

Artificial paradise: Life seems easy and devoid of material cares. Time seems to progress with infinite slowness during this period of fanciful ideas and illusions.

##### 3. Ecstasy

A sort of tranquil ecstasy is attained. This state of blissful rest is known as "kif."

##### 4. Depression

Deep and heavy sleep follows without marked physical depression unless the dose is large.

#### MARIHUANHA ACTIVITY (STOCKINGS<sup>7</sup>)

##### 1. Excitation

Patient experiences a sudden lightness and mild intoxication.

##### 2. Exhilaration

A feeling of happiness and exhilaration follows. Relief from tension and anxiety is accompanied by a marked sense of well-being and self-confidence.

##### 3. Ecstasy

Euphoric effect (2) gives way to dreamy contentment, apathy and perhaps, with larger doses, ecstasy.

##### 4. Apprehension

Toxic effects of excessive doses are evidenced by a sudden feeling of acute apprehension followed by collapse.

Mental disturbances on smoking Indian hemp are more rapid (being manifested in about quarter of an hour) but less violent for the same amount of resin (unless taken in a few rapid pulls at the pipe). Excitation may be marked by extreme volubility interrupted by fits of uncontrollable laughter. Visions always occur and "kif" lasts longer with marked symptoms of mental and physical debility on awakening. Since 1910 insanity from smoking cannabis resin (hashish) has decreased since the drug has become almost unobtainable and smokers have been compelled to be satisfied with chopped cannabis tops.

<sup>1</sup>Wood, T. B., Spivey, W. T. N. and Easterfield, T. H., *Journ. Chem. Soc.*, 1896, 69, pp. 539-546 and 1899, 75, pp. 20-36.

<sup>2</sup>Adams, R., Hunt, M. and Clark, J. H. *Journ. Amer. Chem. Soc.*, 1940, 62, pp. 196-200 and pp. 2194-2196.

<sup>3</sup>Adams, R.; Loewe, S.; Pease, D. C.; Cain, C. K.; Wearn, R. B. and Wolff, H., *Journ. Amer. Chem. Soc.*, 1940, 62, pp. 2402-2405.

<sup>4</sup>Woollner, H. J.; Matchett, J. R.; Levine, J. and Loewe, J., *Journ. Amer. Chem. Soc.*, 1942, 64, pp. 26-29.

<sup>5</sup>Levine, J., *Journ. Amer. Chem. Soc.*, 1944, 66, pp. 1868-1870.

<sup>6</sup>Adams R. *et al.* *Journ. Amer. Chem. Soc.*, 1940-1949, VII to XIX. Tetrahydrocannabinols possessing Marihuana Activity.

<sup>7</sup>Stockings, G. T., *Brit. Med. Journ.*, 1947, I, pp. 918-922.

<sup>8</sup>Bouquet, J., *Bulletin of Narcotics*, 1951, No. 1, pp. 22-45.

(To be concluded)

C. & D. INTERVIEWER  
DISCOVERS

# what CARLISLE chemists are thinking



[Photo, British Railway]

CARLISLE, the county town of Cumberland, with a population of 68,000, has been described as "a place more stirring to read about than to view." Founded at the junction of four Roman roads, it was the farthest outpost in Britain of Caesar's Empire and might today be called "England's outpost of the National Health Service," for only eight miles to the north lies the geographical Scottish border, beyond which all pharmacists contracting under N.H.S. receive higher dispensing fee and container allowance. Because of the proximity to Scotland, many of the doctors are either Scottish or have received their training in Scotland. It is, therefore, hardly surprising that the types of prescriptions received for dispensing are more like those commonly received in Scotland than those of England. The difference, our interviewer was told, is that there are a higher percentage of medicines to be prepared extemporaneously and more teaspoonful dose mixtures prescribed among Scottish than are ordinarily encountered in England. Be that as it may, it is a fact that, before the advent of N.H.S., a high proportion of dispensing consisted of private prescriptions, because none of the doctors dispensed for their private patients. After July 1948, the City's twenty-seven pharmacies did not experience, or hardly experienced, the increased volume of dispensing that occurred in many other towns further south. The only change was in the prescription form received. The fact that pharmacists in Scotland received more for the same work, under identical conditions, was a sore point with all the Carlisle chemists interviewed. One said that he had priced out one month's prescriptions by both the Scottish and English methods and found that the dif-

ference averaged threepence per item in favour of the Scottish method. In a year that amounted to a considerable loss for being "so near and yet so far" from Scotland. The pharmacists of the city were unanimous in condemning the system of post-graduate apprenticeship. All agreed that in future negotiations about N.H.S. remuneration the emphasis should be laid on improving the dispensing fee.

## Apathy Among Chemists

MR. J. SHARP, 26 Scotch Street, the doyen of Carlisle pharmacists and chairman of the local branch of the National Pharmaceutical Union, deplored local chemists' lack of interest in matters of the moment, as shown in their attendance at meetings. The same seven or eight turned up regularly but for the rest it was well nigh impossible to arouse any enthusiasm. "So long as the till keeps ringing and they do not feel any pinch, they prefer to be left alone." If this apathy continued, he declared, it would be too late to take action when the pinch came. As the pioneer worker in Carlisle for the C.F. movement Mr. Sharp believed that, before the 1939-45 war, nearly 100 per cent. of the city's chemists were behind the scheme. Representatives of non-C.F. products had a lean time when visiting Carlisle. Owing, however, to shortages during and since the war C.F. principles had not recently been practised to anything like the pre-war extent. He believed the movement was the finest that had been devised for the chemist in business. Mr. Sharp said that he always voted at elections to the Pharmaceutical Society's Council. Any form of representation was doomed to failure while wholesale apathy continued, and he saw no advantage in territorial representation.

Mr. J. L. HALL, 5 Devonshire Street, said that fees received under the National Health Service were inadequate to maintain a service of the standard to which a pharmacy had been used. It was impossible to make N.H.S. pay, for example, without selling cosmetics (never stocked in a pharmacy fifteen years ago), and though he would like to discontinue the N.H.S. contract he found that to be impossible, as it provided one-third of the total turnover. Mr. Hall said he always voted in elections to the Council but had little influence in its present members, who were out of touch with the average chemist and his problems." He would welcome the formation of a union of pharmacists in all branches of the profession, which would speak to the Ministry of Health with a united voice. He also complained of a "copying of formulas" by manufacturers and cited vitamin B<sub>12</sub> as an example. There were now numerous identical preparations of B<sub>12</sub> on the market under different names, and that meant multiplication of stock, as all doctors had their pet manufacturing house.

#### Education Policy Approved

Mr. J. W. BOWMAN, Denton Street, was in agreement with the Society's educational policy. In the hands of the students of today, he said, would rest the policy of pharmacy in twenty years' time. Pharmacists must be able to hold their own with other professions. Mr. Bowman said he qualified in 1925 and the examinations that time were looked upon as more thorough than previously. Since then they had become more searching all the time. As a member of the Society he always exercised his voting right, but though he criticised candidates' statements of policy his voice was usually a "shot in the dark." Mr. W. L. NICHOLSON, Nicholson & Co., Ltd., had views on the Joint Industrial Council's scale of wages for pharmacists which, he said, was much too low to attract new entrants. It might be questioned that they represented only minimum wages, but parents of children just leaving school were certainly guided by them. Comparison with other professions was for a similar length of training showed the outlook for the pharmacists to be the least favourable. On the method of electing members to the Society's Council Mr. Nicholson thought it was wiser to elect the best brains, drawn from all sections, to represent the profession. It had hitherto been very difficult for anyone

but a retired pharmacist, or a proprietor pharmacist with adequate staff and living in or near London, to stand for election. If anything could be done to alter that state it would be to the advantage of everyone. As an N.H.S. contractor he found it necessary to contract with the Executive Councils of both Dumfries and Carlisle, with the result that he received payment at two rates.

#### View on Apprenticeship

Mr. G. LIGHTFOOT, Wigton Road, as secretary of the East Cumberland Branch of the Pharmaceutical Society, which embraces towns like Penrith eighteen miles away, emphasised the difficulty of arranging meetings in such a scattered area. In view of the distance that had to be travelled, he considered attendance of members fairly good. On apprenticeship, his view was that to take an apprentice straight from college, and consequently without any business training, was not a paying proposition. On arrears of payment due to contractors he thought some form of averaging should be accepted so that the bureaux could make a fresh start. The money saved in labour costs by the bureaux if any such averaging were accepted should be passed to the chemist. In future negotiations with the Ministry over terms, emphasis should be on getting a better dispensing fee.

Mr. I. L. ROBSON had several words to say on present day apprenticeship. It was, he said, not now taken seriously enough. He had himself always endeavoured to give apprentices the opportunity of compounding all practicable B.P. and B.P.C. preparations during their training. In retail establishments, dusting and the display of stock were also essential duties, and the apprentice must be taught the way to go about them in a business-like manner. It was unreasonable to expect the same degree of co-operation in the trainee straight from college as in the one direct from school. For Council elections he believed the statements given in the pharmaceutical Press were inadequate, since "any one can puff themselves up." Mr. Robson thought the Council reports should be published at greater length, but did not believe it would be a good thing to divulge the way individual members voted on resolutions. "Let the member vote according to his conscience and without fear of losing the favour of some of his supporters." He did not believe that there was a large amount outstanding to contractors for N.H.S. work.

# PHARMACEUTICAL SUPPLIES CONTRACTS

THE Institute of Public Supplies Officers has reached an agreement with the Association of British Pharmaceutical Industry on contract conditions to be adhered to by supplies officers so far as circumstances permit. The points agreed are:—

1. Standard form of contract subject to the conditions being agreed by the trade and by the hospital supplies officers.

2. Fourteen to twenty-one days allowed for return of comprehensive tenders.

3. Careful estimates always of requirements.

4. Clear indication of reservation of right to allocate a contract as a whole or in part. The trade feels it unfair for quantities less than those specified on the invitation to tender to be ordered either through the splitting-up of the contract or because initial estimates prove too generous. It is stressed that prices are quoted for the quantities specified and any departure from those quantities renders the contract price invalid.

5. The trade practice of charging for containers and crediting them upon return in good condition is accepted as being the best method.

## Rise-and-Fall Clause

6. Practice of inserting a "rise and fall" clause should not prejudice against firms making use of it, though, other things being equal, a contract might be given to a firm that did not invoke such a clause. A covering letter should not be relied upon in indicating that use will be made of a "rise and fall" clause. A clear indication must be given on the tender form either by writing thereon or by attaching a slip to the form. Changes in tariffs, taxes and duties outside control of supplier should be passed on to consumer immediately and not subjected to any previously specified delay period.

7. Flat rates of discount best avoided, though quotations for lesser-used drugs on that basis is admitted useful to Supplies Officer.

8. "All goods supplied shall, unless otherwise stated, conform to the standards and tests of the British Pharmacopoeia, or of the British Pharmaceutical Codex (latest edition and supplements), or of the National Formulary 1949. Items not included in the above shall be of best quality of their kind or class. Preparations made to any special formula shall, as far as possible, be made from ingredients of B.P. or B.P.C. quality, if such exist, and all goods shall be properly labelled."

9. Power of inspection of goods by the purchaser during manufacture is considered by trade to be unnecessary, since (a) purchaser is protected by existence of official standards; (b) the practice confers unwarranted powers of intrusion, causing dislocation of manufacturing and packaging arrangements, and (c) there is no means of checking that the consignment seen in manufacture would, in fact, reach the purchaser. The trade would like to see such clauses deleted.

10. The expense of analysis to be borne by the supplier only when goods are proven on such analysis to be sub-standard.

11. "Should the contractor fail without good reason, to deliver goods or materials ordered from him, within the period specified, or should goods or materials delivered not be of the stipulated quality, weight or measure, the committee shall have the power to reject any such goods and materials and to purchase others instead elsewhere unless the contractor shall immediately himself supply others that are entirely satisfactory and an extra cost so incurred by the committee over the originally agreed price, together with any charges and expenses, shall be recoverable from the contractor. The purchaser should accept responsibility for the proper storage of rejected goods until collected by the contractor."

## Carriage on Small Quantities

12. It was agreed that where hospitals order small quantities or require goods urgently by post it should not be unreasonable for the contractor to charge carriage. Contractors to be advised to insert a qualification in their tenders when necessary.

13. (a) Where unreasonable stipulations are made for goods to be delivered in a short time the matter should be taken up with the individual authority. (b) Where delivery times were specified, if it were not possible for driver to fit in with the time-table, an alternative arrangement should be made the subject of individual negotiation.

14. (a) In a quantity contract a penalty clause should be inserted to provide for failure to deliver. (b) Period contract should be required to run its normal course, while providing a break clause for termination by either side after reasonable notice.

15. Invoicing on hospital forms is deprecated.

16. It is undesirable to label outer wrappings with the value of the contents and there is no need to state their nature.

17. The right to call for a bond or surety should be reserved.

18. A fair wage clause should be kept strictly within the bounds of the Fair Wages Resolution of the House of Commons.

19. The right should be reserved to ask tenders to show extensions of value against drug items.

20. All telephone orders should be covered by an official order.

21. Purchase tax should be stated separately wherever possible.

22. Tender forms should always be supplied in duplicate.

23. It is unnecessary for the company's seal always to appear on the form of contract.

24. It should be possible for the Institute to contact its members through the medium of its journal to ensure that when invitations to tender are issued, they are brought to the notice of the Association.

25. Where objection is raised to a particular clause in a contract it is suggested that the supplier should qualify the tender preferably on the form itself, rather than by the inclusion of a covering letter.

## TRADE REPORT

Not quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

LONDON, JANUARY 16

ERAGE trade in PHARMACEUTICAL and NE CHEMICALS is reported in the home market during the week. Many inquiries, especially from overseas, were received for these commodities which are in short supply. Included among these is DDT, and owing to increased costs of raw materials makers have advanced their schedules by approximately twopence per lb. THYMOL has been reduced by 2s. 6d. per lb.

In the CRUDE DRUGS market ASAFETIDA in good demand from the Continent and prices are high for spot material. Holders report that it is difficult to get anyone to undertake the grinding of the material nowadays on account of its objectionable odour. Although quiet, CASCARA SAGRADA firm, and prices are fully maintained. During the past few weeks an exceptional demand is reported for HONEY from home and overseas markets. The need for a means to import the material from Argentina, and the tendency to replace sugar with honey in manufacturing, especially in the Continent, have contributed to make honey a firm market. Prices for spot supplies are from 5s. to 10s. dearer than quotations a month ago. There is little or no inquiry for Chinese MENTHOL, and prices have fallen by as much as 6s. per cwt. Nevertheless there appears to be an unsatisfied demand for Brazilian material, with practically no stocks on the spot. Forward quotations for Portuguese ERGOT are now dropped to the level at which a new season opened in August 1951. M. ACACIA is firmer at origin and on the spot, whilst KARAYA and TRAGACANTH lower.

In the ESSENTIAL and EXPRESSED OILS market most commodities are quiet and a downward tendency predominates. Marketed lower are BAY, CASSIA, LAVENDER (French and Spanish spike). CASTOR is at £30 per ton less than previous quotations. With the issue of import licences for OLIVE and the arrival of new-crop oil from France, spot prices are considerably higher. During the past week Spanish new-crop olive prices have been announced.

### S. Drug and Chemical Report

NEW YORK, JANUARY 15

UNITED STATES makers of TARTARIC ACID are holding closely to the recently established higher prices, although importers of low-cost acid are offering material at 4 cents per lb., in bond, or 44 cents, duty paid. Production of SULPHONAMIDES is still expanding and is expected to reach 6 million lb. this year. The Commerce Department has announced that it will license

for export 25 million lb. of DDT principally to Latin American, Middle Eastern and South-east Asian countries for the six-month period ending March 31. Originally only 20 million lb. of the insecticide were to be exported to all countries for the full year ending September 30. The Department said increased output in the past three months was responsible for the larger exports.

The nominal price of QUICKSILVER (\$209-\$212) has fallen by \$3 per flask. SALICYLATES, NARCOTICS and other seasonal items are currently moving in good volume but price-wise the market lacks feature. BALSAM COPAIBA was priced higher at \$1.65 per lb. (up 15 cents) but Peru BALSAM dropped to \$1.85 (down 10 cents). Brazilian MENTHOL is down 15 cents per lb. ESSENTIAL OILS priced higher per lb. are Californian LEMON at \$6.00 (up \$1) and WORMSEED. Lower per lb. are Ceylon CITRONELLA at \$1.00 (down 15 cents); Californian ORANGE, \$1.70 (five cents); and BOIS DE ROSE, \$4.00 (35 cents).

### Pharmaceutical Chemicals

BENZOIC ACID.—1-cwt. lots are 3s. 0½d. per lb. The SODIUM SALT is 2s. 10½d. per lb. in 1-cwt. lots.

BISMUTH SALTS.—The following are the prices (per lb.) in largest bulk packages:—

|                | 1-cwt. | 28-lb. | 7-lb.  |
|----------------|--------|--------|--------|
|                | s. d.  | s. d.  | s. d.  |
| CARBONATE ...  | 34 4   | 34 7   | 39 1   |
| SALICYLATE ... | 27 11  | 28 2   | 31 10½ |
| SUBGALLATE ... | 27 10  | 28 1   | 31 9½  |
| SUBNITRATE ... | 29 11  | 30 2   | 34 1½  |

BORIC ACID.—Prices for B.P. grade in quantities of 1 ton and upwards are as follows:—Granular, £81; crystal, £88; powder, £85 10s.; extra-fine powder, £87 10s. per ton. In 1-cwt. bags; carriage paid in Great Britain. Surcharges for smaller quantities: Less than 1 ton but not less than 5 cwt., 1s. per cwt.; 3 cwt., 2s.; 1 cwt., 5s.

CARBON TETRACHLORIDE.—In 1-2 carboy lots, B.P. grade is £115 per ton. TECHNICAL, in 40-gall. drums, in less than 1-ton lots, is £66 per ton; 1 ton and under 2 tons, £64 10s.; 2 tons and under 4 tons, £64; 4 tons and upwards, £63.

CARMINE.—Prices range from 80s. to 85s. per lb., as to quantity.

CHLOROCRESOL.—Pharmaceutical quality is quoted at 5s. per lb. in 1-cwt. drums.

CHLOROXYLENOL.—B.P. quality is quoted at 6s. 9d. per lb. for 1-cwt. lots.

DDT.—Advanced. Prices are now from 3s. 9d. to 4s. 6d. per lb., as to quantity.

**LIQUID PARAFFIN.** — Price to wholesale distributors for **HEAVY, B.P.**, is £102 7s. 6d. per ton (8s. 1d. per gall.), **LIGHT, B.P.**, is £83 7s. 6d. per ton (6s. 5d. per gall.) in 40/45 gall. returnable loaned drums, delivered in the U.K. **SOFT PARAFFIN: WHITE** is £99 9s. or £97 5s. per ton as to grade and **YELLOW, £75 1s.**, all in non-returnable 3-cwt. drums. **HARD PARAFFIN, m.p. 135/140° F.**, is £91; 145/150° F., £104 10s.; and 160/165° F., £125 per ton, in minimum ton lots, ex works.

**NICOTINAMIDE.** — In short supply. Prices are: 10-kilo lots, 180s. per kilo; 1-kilo, 182s. 6d.

**SALOL, B.P.C.** — Current quotations for quantities of 1 cwt. are 9s. to 10s. 6d. per lb., according to pack; 28-lb., 10s. 6d.; 14-lb., 13s. 0½d.; 7-lb., 16s. 1d.

**THYMOL.** — Reduced. 1-cwt. lots are now 28s. per lb.; smaller lots are from 29s. to 30s. per lb.

**d-TUBOCURARINE CHLORIDE.** — Prices range from £5 per gm., according to quantity.

## Crude Drugs

**ALOES.** — Prime Cape on the spot is about 215s. per cwt. and forward offers are up to 203s., c.i.f., for prompt shipment. Curacao is 425s., c.i.f., forward and 460s. for spot.

**ANISE (STAR).** — Offers from origin are about 320s. per cwt., c.i.f. Spot material is 330s. per cwt., in bond.

**ASAFETIDA.** — Persian block is £20 per cwt., in bond.

**BALSAMS.** — *Canada* is unchanged at about 30s. per lb. on the spot. *Copaiba*: No supplies of soluble on the spot; insoluble *Parà* is offered at 13s. 6d. per lb., duty paid. *Peru* is quiet at from 17s. to 18s. per lb., duty paid and 14s., c.i.f., for shipment. *Tolu*, natural, forward offers are from 32s. 6d. to 35s. per lb., c.i.f., as to shipper. B.P. quality is unchanged at 32s. 6d. per lb. on the spot.

**BAY LEAVES.** — Quotations are from 112s. to 140s. per cwt., duty paid, London.

**BENZOIN.** — Firm. No. 1 Sumatra block on the spot is quoted at from £27 10s. per cwt.; for shipment, £25 17s. 6d., c.i.f. Siam almonds (medium bold) are 37s. 6d. per lb., spot.

**BUCHU.** — Unchanged. Short round leaves are 2s. 1d. per lb. on the spot.

**CHAMOMILE FLOWERS.** — Belgian (old crop) is 4s. per lb., on the spot.

**CASCARA SAGRADA.** — Firm. New-peel American bark is from 330s. to 345s., duty paid. 1950 bark is available at from 355s. per cwt., duty paid.

**CAPSICUMS.** — Abyssinian are 120s. per cwt. on the spot. East African, on stalk, are 150s. per cwt., and off stalk, 220s.

**CHILLIES.** — Sierra Leone on the spot are quoted at 260s. per cwt.; for shipment 230s., c.i.f.; East African (Mombasa) 330s., ex warehouse; for shipment 500s., c.i.f.

**CLOVES.** — Zanzibar on spot, quoted 5s. 4d. per lb.; for prompt shipment 5s. 2d., c.i.f.

**ERGOT.** — Forward quotations of Portuguese are easier at 42s. per lb., c.i.f. Spot offers are about 45s. per lb.

**GALANGAL ROOT.** — For spot supplies 130s. per cwt., ex wharf, is asked. Forward quotations are about 91s. 6d. per cwt., c.i.f. London.

**GINGER.** — African on the spot 232s. 6d. per cwt. New-crop February April shipment, 182s. 6d., c.i.f. Jamaica on the spot is from 485s. to 500s. per cwt. as to quality.

**HONEY.** — A firm market. Spot supplies of Argentine are available at from 10s. to 112s. per cwt.; Australian, 100s. 106s. per cwt.; Jamaican, from 110s. 115s. in 3-cwt. barrels.

**IPECACUANHA.** — Unchanged. Forward offers are: Columbian, 54s. 6d. per lb. Nicaraguan, 59s. 6d., both c.i.f., January shipment. Spot prices of Columbian are 57s. 6d. per lb., and Nicaraguan, 62s. 6d.

**KARAYA.** — Superior No. 1 gum on the spot is about 325s. per cwt.; No. 2, 28s.

**LIQUORICE.** — Anatolian natural whole root on spot in London is quoted at 52s. 6d. per cwt.; Syrian, natural, is 42s. 6d. Turkish block juice quotations are from 190s. upwards, according to holder, duty paid. Turkish stick is 180s. per cwt., duty paid; Italian stick, 475s. per cwt., duty paid.

**MACE.** — West Indian pale blade 9s. per lb.; for shipment, 8s. 4½d., c.i.f.

**MENTHOL.** — Chinese is easier at 72s. 6d. per lb., duty paid. Supplies of Brazilian the spot are almost exhausted. Synthetic detached crystals, 60s. per lb. for 60-case lots.

**NUTMEGS.** — West Indian 80's, quoted 4s. 3d. per lb. on the spot and 3s. 6d., c.i.f. for shipment. East Indian for shipment are quoted at from 3s. 7½d., c.i.f.

**ORANGE PEEL.** — Firm. Bitter quart are from 1s. 4d. to 1s. 10d., as to sour sweet ribbon, 1s. per lb., duty paid.

**PAPAIN.** — Scarce on spot and forward East African No. 1 white on the spot about 41s. per lb., and Ceylon sun-dried about 39s. per lb.

**QUILLAIA.** — Whole bark on spot 155s. per cwt., and 134s., c.i.f., for shipment. Cut bark is offered at 185s. per cwt. ex warehouse.

**SANDARAC.** — New-crop is now available on the spot at 16s. 6d. per lb.

SEEDS.—ANISE.—Cyprus is 157s. 6d. per cwt.; Turkish, 150s. in bond, and 160s. duty paid. CARAWAY.—Dutch is slow at 10s. per cwt., duty paid. CELERY.—Indian mains unchanged at 1s. 10½d. per lb., at London. CORIANDER.—Spot market is inclined to be easier; Morocco is offered 85s. per cwt., in bond, and 92s. 6d. duty paid; Argentine splits, 80s., duty id; Indian, 105s. Shipment: Morocco s been offered as low as 75s. per cwt., f.f., London for January shipment and siness done at this figure. CUMIN.—market quiet and unchanged. Spot: Cyp- s, 215s. per cwt.; Indian, 210s.; Malta, 0s.; Morocco, 205s., in bond, and 225s., ty paid. DILL.—Indian offered at 85s. r cwt., spot. FENNEL.—Indian is now 5s., per cwt., spot London. New-crop February shipment quoted at 195s. per t., c.i.f. FENUGREEK.—Morocco un- anged at 46s. per cwt., duty paid, spot ondon or Liverpool. MUSTARD.—English on 80s. to 110s. per cwt., according to ality.

SENEGAL.—Spot supplies are from 16s. 9d. 17s. per lb. with higher prices indicated origin.

SENNA.—Tinnevely leaves on the spot e from 11d. to 1s. 6d. per lb., according quality. Pods are 2s. 3½d. per lb. for .q. and up to 3s. 9d. for hand-picked. exandria pods are from 3s. 6d. to 7s. 6d. r lb. as to quality.

SHELLAC.—Unchanged. Spot quotations : F.O.T.N., pure, 335s. F.O. Standard . 1, 345s., and fine orange, 375s. to 425s. r cwt., ex-London warehouse.

SQUILL.—Italian white new-crop is ered from origin at 57s. 6d. per cwt., f. London. Spot is 67s. 6d. per cwt.

STROPHANTHUS.—*Kombé*, 100 per cent. quoted at 20s. per lb. on the spot.

STYRAX.—Unchanged. Spot is up to 9s. r lb., duty paid, and 8s. 3d. in bond.

TONKA BEANS.—Frosted Parà are 6s. 9d. r lb., spot.

TRAGACANTH.—No. 1 ribbon on the spot £165 per cwt.; No. 2, £140; No. 3, £105.

TURMERIC.—Madras finger is 80s. per t., spot London; for shipment, 67s. 6d., f.

WAXES.—BEES'.—Dar-es-Salaam on the ot is 550s. per cwt.; shipment, 505s., f. Benguela on the spot is 515s. in nd; shipment, 505s., c.i.f. CANDELILLA.—ot supplies are offered at 630s. per cwt.; shipment offers. CARNAUBA.—Prime low, spot, 1,070s. per cwt.; shipment, 0s., c.i.f. Fatty grey, spot, 860s. per t.; shipment, 815s., c.i.f. MONTAN.—ibeck crude on the spot is 135s. per t. OURICURI.—Spot, 0.5 per cent. im- ities, 775s. per cwt. SPERMACETI.—ot supplies are from 2s. to 2s. 3d. per lb. WITCH HAZEL.—Leaves on the spot are oted at 2s. 6d. per lb.

## Essential and Expressed Oils

ALMOND.—English-expressed is from 6s. 6d. to 6s. 10½d. per lb.; offers of imported oils from origin are similar.

AMBER.—Rectified on the spot is quoted at from 1s. 6d. per lb.

ANISE.—Spot supplies are 9s. 3d. per lb., nominal, and 8s. 3d., c.i.f., forward.

BAY.—Easier. Drum lots of W. Indian are 12s. per lb., on the spot.

BERGAMOT.—Scarce. Nominal spot quo- tation is 115s. per lb.

CADE.—Supplies of Spanish are from 2s. 6d. to 3s. per lb.

CASSIA.—Spot supplies are offered from 21s. per lb.

CASTOR.—Easier. B.P. oil on the spot is £276 per ton; Firsts, £270; Seconds, £260, all in non-returnable drums, ex mill. Quo- tations for February-April delivery are £15 per ton less than spot prices.

LAVANDIN.—Quotations for spot supplies are about 24s. per lb.

LAVENDER.—Easier. French, 40-42 per cent. linalol on the spot is from 43s. per lb. Spanish spike is 14s. 9d. per lb.

OLIVE.—Prices for spot supplies are weaker. Pharmaceutical oil in 45-gall. drums, spot, is from 31s. to 32s. per gall. French virgin (maximum acidity 1 per cent.), new-crop, is offered for immediate shipment at £255; Tunisian virgin at £250; and French pharmaceutical (maximum acidity 0.25 per cent.), at £250 per 1,000 kilos, c.i.f. London. Spanish, best quality, is £200 per 1,000 kilos, f.o.b. main Spanish ports.

PEPPERMINT.—Chinese *arvensis* oil on the spot is 38s. per lb.; forward delivery, sellers' licence, 35s., c.i.f., January-Febru- ary shipment. Brazilian for shipment is 27s. per lb., c.i.f., and spot, 29s. nominal. Italian is about 65s. per lb., c.i.f. forward.

PETITGRAIN.—Paraguay is offered at 24s. per lb., c.i.f. Spot supplies are from 27s. 6d. per lb.

PIMENTO BERRY.—English-distilled oil, 62s. 6d. to 65s. per lb. Imported oil is from 47s. 6d. per lb., spot.

ROSEMARY.—Quiet. Spanish on the spot is 8s. per lb., duty paid.

SAGE.—Spanish is offered at 9s. 6d. per lb., spot.

SANDALWOOD.—Mysore oil on spot is from 82s. 6d. to 85s. per lb. Australian, 60s. per lb., and West Indian, 21s. per lb.

SASSAFRAS.—Brazilian natural is offer- ing at from 6s. 6d. to 7s. 6d. per lb., duty paid, spot, according to grade.

SPEARMINT.—U.S.P. is from 61s. to 62s. 6d. per lb. on the spot.

VETIVERT.—Bourbon in original drums is 180s. per lb., spot.

## OLIVE OIL CROPS AND PRICES

**T**HE year 1951 was a difficult one for the marketing of olive oil, because prices fluctuated considerably as a result of over-buying by the United States in the early part of the year. Prices at the time rose from approximately £250 to £370 per short ton, only starting to drop back after the middle of the year.

United Kingdom imports of oil for the period January 1-September 30 were:—

| COUNTRY     | IMPORTS (TONS) | COUNTRY         | IMPORTS (TONS) |
|-------------|----------------|-----------------|----------------|
| Algeria ... | 469            | Morocco ...     | 47             |
| Cyprus ...  | 29             | Netherlands ... | 98             |
| France ...  | 382            | Portugal ...    | 15             |
| Greece ...  | 10             | Spain ...       | 865            |
| Italy ...   | 156            | Tunis ...       | 157            |
| Libya ...   | 28             | Turkey ...      | 74             |

Imports of olive oil have been restricted since November 1951 (see *C. & D.*, 51.II. 642). The seven-months' quota for the period ended June 30 was approximately 40 per cent. of the imports during the period January 1 to June 30, 1951. Licences were only issued at the end of December 1951 and because of the holidays and the fact that new-crop Spanish prices are not yet known (although it is rumoured that they will certainly not exceed £214 per short ton f.o.b. Spanish port, equivalent to approximately 21s. per gall., duty paid, ex store U.K.) it is difficult to forecast what effect the cuts will have on the market in 1952. [Spanish prices have now been announced (see p. 93).—EDITOR.]

The possibilities are that licence-holders, some of whom are new to the trade, may try and hold for high prices. The 1951-52 crop promises to be the largest since 1930. Consumers will, no doubt, follow carefully the prices at origin (frequently quoted in the Trade Report), and thus protect themselves against paying unduly high landed prices.

The anticipated high yield for the 1951-52 olive crop is so large that, coupled with the fact that imports into the U.K. will be restricted by some 60 per cent. and that the U.S. greatly overbought in 1951 (some estimates say she has two years' supply), it will probably cause world prices for olive oil to be very low. It must also be remembered that the output of oils and fats has greatly increased since 1945, and should reach 24 million tons this season.

The following table gives expected crop yields from the main producing countries

and compares them with other years:—

| COUNTRY                    | NEW CROP ESTIMATES '000 TONS | 1950-51 CROP '000 TONS | AVERAGE PRE 193 '000 TONS |
|----------------------------|------------------------------|------------------------|---------------------------|
| Spain ...                  | 600                          | 190                    | 450                       |
| Italy ...                  | 300                          | 175                    | 200                       |
| Greece ...                 | 150                          | 42                     | 75                        |
| France (with North Africa) | 100                          | 70                     | 90                        |
| Turkey ...                 | 40                           | 50                     | 50                        |
| Portugal ...               | 50                           | 44                     | 50                        |
| Others ...                 | 30                           | 20                     | 30                        |
|                            | 1,270                        | 591                    | 945                       |

At the time of pressing it will be impossible to process all the olives in prime condition and much oil will, therefore, of second quality with a strong odour. Buyers will have to exercise care that the oil is processed from olives picked and pressed at the correct time.

## WORLD TRADE

**Italy to Ratify 1940 Agreement.**—Italy has taken the first step towards putting into effect an agreement on the exchange of medical and pharmaceutical products signed between the Italian and British governments three months before Italy declared war on Britain in 1940.

**India's Nux Vomica Exports.**—The export of nux vomica seeds from India has increased during the past few years from 449 long tons in 1948 to 1,703 in the year ended March 31, 1951. In the period April-August 1951 the figure was 890 tons of which the United Kingdom took 65 per cent.

**U.S. Sulphur Production.**—U.S. sulphur producers have informed the American National Production Authority that the output in 1952 will probably not exceed 5 million tons. The current annual rate of output, based on figures from the first ten months of 1951, is now 5,311,000 tons. Output from a number of mining properties was stated to be steadily declining.

**Indonesian Tax Changes.**—Under the new Act three taxes—an internal sales tax, an import tax and a luxury tax—are now in force in Indonesia. The sales tax levied upon all domestic manufactures is of 5 per cent.; the import tax is at the rate of 10 per cent. (with certain exemptions which include medicines) and the luxury tax of 10 per cent. on all goods whether imported or home produced.

## MEDICAL ABSTRACTS

**Side-effect from PAS and Liquorice.**—According to Strong ("British Medical Journal," 1951.2.998-1002) who handled 10 cases showing marked muscular weakness after treatment with sodium PAS and liquorice extract, the weakness was found to be associated in one case with a deficiency of serum potassium. It was corrected by administering potassium chloride.

**L-norAdrenaline as a Vasoconstrictor.**—A clinical trial on sixty-nine patients by Churchill-Davidson ("British Medical Journal," 1951, II, pp. 1551-55) found that L-noradrenaline provided a safe and reliable means of controlling blood pressure during surgical operations. The drug was administered by intravenous infusion. Owing to its instability, infusion solutions were made as required from 1 litre of normal saline and 4 mls of a 1 in 1,000 solution of L-noradrenaline. By commencing the infusion slowly and increasing the rate gradually at one minute intervals and taking frequent blood pressure readings it was found possible to stabilise the blood pressure and to maintain it at the desired level. Hypertensive patients showed sensitivity to the drug, and only a relatively small dose was necessary to maintain a constant blood pressure. Larger doses were necessary after using pentamethonium or trimethonium compounds. Intravenous infusion of L-noradrenaline was subsequently found to be of value in sudden cerebral hæmorrhage, cardiac operations, and after the administration of pentamethonium or hexamethonium compounds and in certain other circumstances.

**Tetracaine Hydrochloride in Bronchoscopy.**—A number of toxic reactions attributed to tetracaine hydrochloride when used as an anæsthetic in bronchoscopy are reported by Weisel and Tella ("Journal of the American Medical Association," 1951.147.218-22). Anæsthetic procedure in a study of 947 patients consisted of intravenous injections of meperidine hydrochloride and phenobarbitone three and four hours respectively, and local application of 2 per cent tetracaine hydrochloride solution immediately, before bronchoscopy. In twelve cases the patient complained of weakness, the pupils became dilated, the skin pale or grey in colour; in 1 patient fainted, the pulse becoming thready and the blood pressure falling markedly. More severe reactions, including convulsions in six cases, and of pro-

nounced bronchospasm in one case, were also reported. The authors consider that premedication with barbiturates prevented the toxic reactions from being more marked. They insist that facilities for oxygen administration and for artificial respiration should be immediately available during the use of tetracaine. They conclude that tetracaine is a valuable anæsthetic but that full precautions, including premedication, should be taken.

**Trichloroethylene in Labour.**—The experience with trichloroethylene, administered by student and pupil midwives using a Steels' inhaler, of O'Donel Browne and colleagues at the Rotunda Lying-in Hospital, Dublin ("British Medical Journal," 1951.2.1556-57) leads them to believe that that method of producing analgesia in labour deserves a more extensive trial. Observations covering 1,390 cases in hospital and in the patients' own homes show that trichloroethylene can produce relief comparable to that given by nitrous oxide and air, and that though the gas is less agreeable to inhale, the apparatus required for its use is "easily portable and cheap." Too high a concentration of the substance over a short time lessens uterine tone, and the total period of inhalation should not exceed two to three hours. The use of narcotic drugs or full anæsthesia can be combined with the use of trichloroethylene. The Steels' inhaler measures 8 in. overall, weighs 8½ oz., and contains a charge of trichloroethylene in a crushable 3 mil ampoule in an inner cylinder. Each ampoule is effective for about half an hour's administration. The inhaler is sensitive to temperature changes, but is unaffected by movement or shaking as the trichloroethylene is soaked up by absorbent covering of the crushed ampoule.

## FIFTY YEARS AGO

### The Outdoor Movement

*From the C. & D., January 18, 1902*

It is a sign of the times that the leading London pharmaceutical firms with the largest staffs of assistants are giving up the indoor system. Those who have adopted this plan within the past year are Messrs. John Bell & Co. and Messrs. Squire & Sons, of Oxford Street. Provision is, of course, made for night-bell attendance, and the change appears to have given satisfaction to all parties.

## TRADE MARKS

(From the "Trade Marks Journal," January 2)

*For paper, plates and films for use in orthochromatic photography (1).*

GEVACHROME, 692,669, by Gevaert Photo-producten, N.V., Mortsel, Belgium.

*For industrial chemicals (1).*

DYNAGEN, 701,542, by Dynamit, A.G., vormals Alfred Nobel & Co., Cologne, Germany.

*For hair cream (3).*

TONICREAM, 667,486-87, by Pinaud, Ltd., London, S.W.12.

*For shampoos (3).*

CADOL, 696,365, by Kerka Permanent Waving, Ltd., London, N.W.3.

*For all goods (3).*

INTERCHEMIE, 699,341, by Interchemie, A.G., Zurich, Switzerland.

*For non-medicated toilet preparations for shaving purposes (3).*

RAZOGlide, B703,079, by E. G. Finch & Sons, Camberley.

*For pharmaceutical preparations and substances (5).*

GP, 687,854, by R. P. Scherer, Ltd., Slough. VAGICAPS, B696,674, by Frank W. Horner, Ltd., Montreal. PHENCODAL, 702,211, by Thomas Kerfoot & Co., Ltd., Bardsley. MEGA-LOVEL, 702,438, by Vitamins, Ltd., London. W.6. KIDIVITE, KIDIFERRUM, 702,490-91, by Clinical Products, Ltd., Richmond.

*For medicated preparations for women's use (5).*

GYNEX, B691,614, by Merz & Co., Ltd., London, W.C.1.

*For pharmaceutical preparations for human and veterinary use (5).*

VIROFRAL, 693,159, by N. V. Philips-Roxane Pharmaceutisch-Chemische Industrie Duphar, Weesp, Holland. DUACTIN, 700,049, by Organon Laboratories, Ltd., London, W.C.2. PIPANOL, 703,125, by Bayer Products, Ltd., London, W.C.2. PIPANOL, 703,130, by Winthrop Products, Ltd., London, S.W.1.

*For pharmaceutical hormone preparations (5).*

PRIMODOS, 696,422, by Schering, A.G., Berlin, Germany.

*For all goods (5).*

INTERCHEMIE, 699,342, by Interchemie, A.G., Zurich. LERGINE, TROPALAM, 701,970-75, by The Wellcome Foundation, Ltd., London, N.W.1. FRANSANO, 702,680, by Harry Thomas Franks, Torquay.

*For pharmaceutical preparations for use in veterinary medicine (5).*

ETHIDIUM, 702,249, by Boots Pure Drug Co., Ltd., Nottingham.

*For germicidal, antiseptic and disinfectant preparations (5).*

LIFEGUARD, 702,606, by Lifeguard Products, Ltd., London, E.C.2.

*For non-medicated toilet paper (16).*

PLAZA, 702,830, by Silka Supplies, Ltd., London, E.1.

*For preparations for destroying vermin (5).*

FENTENE, 701,790, by Guaranteed Sanitation, Ltd., London, N.7.

*For paper towels (16).*

DABSTER, 702,936, by Cresco, Ltd., Worth. *For articles for medical and surgical purposes made of rubber or gutta percha (10).*

LEYLAND, 685,718, by the Leyland & Birmingham Rubber Co., Ltd., Leyland.

## COMING EVENTS

### Monday, January 21

FINCHLEY AND DISTRICT DIVISION, NORTH LONDON PHARMACEUTICAL ASSOCIATION and BRAN Bull and Butcher, Whetstone (Totteridge Corner), at 8 p.m. Meeting.

ASSOCIATES' SECTION, ULSTER CHEMISTS' ASSOCIATION, Boat Club, Lower Balfour Avenue, Belfast. Informal dance. Ticket 2s. 6d. Late transport.

### Tuesday, January 22

HARROW BRANCH, PHARMACEUTICAL SOCIETY, Hall, Baptist Church, College Road, Harrow. 7.30 p.m. Mr. R. P. McBride (Trinity College, Dublin) on "Dangerous Drugs and Subjects."

### Wednesday, January 23

BOLTON PHARMACEUTICAL ASSOCIATION, Chequer Square, Bolton, at 6 p.m. Visit to pantomime by coach.

CORNWALL BRANCH, PHARMACEUTICAL SOCIETY, Carlyon Bay Hotel, at 7 for 7.30 p.m. Annual dinner and dance. Ticket, 18s. 6d., from H. S. Estlick, The Pharmacy, St. Dennis.

DUNDEE BRANCH, PHARMACEUTICAL SOCIETY, Kinross, Lindsay Street, Dundee, at 6.45 p.m. Social event. At 7 p.m., whist; at 8 p.m., dinner; at 9.30 p.m., dancing. Ticket 17s. 6d.

TEES-SIDE BRANCH, PHARMACEUTICAL SOCIETY, Vane Arms Hotel, High Street, Stockton-on-Tees, at 7.45 p.m. Dr. E. W. Tapley (Pharmaceutical Specialities (May & Baker), Ltd.) "Some Recent Advances in Drug Therapy."

WEST LONDON BRANCH, NATIONAL PHARMACEUTICAL UNION, 17 Bloomsbury Square, London, W.C.1. at 7.30 p.m. Mr. G. H. M. Graham, M.I.C.I.O.'s and their Problems."

### Thursday, January 24

EASTBOURNE BRANCH, PHARMACEUTICAL SOCIETY, Civil Defence School, St. Saviour's rooms, Ness Road, Eastbourne, at 7.30 p.m. Dr. B. T. Glover on "Health Hazards of an Atomic Plosion."

LEEDS BRANCH, NATIONAL PHARMACEUTICAL UNION, Metropole Hotel, Leeds, at 7.45 p.m. Mr. Steinman (a member of N.P.U. Executive) "The N.P.U. Services and the National Health Service to Date."

THAMES VALLEY DISTRICT PHARMACISTS' ASSOCIATION and BRANCH, and WIMBLEDON PHARMACEUTICAL ASSOCIATION, Kingston Hotel, Kingston-on-Thames. Debate: "The Official Recognition of the Unqualified Dispenser is Neither Necessary nor Desirable."

CHEMISTS' FEDERATION MANUFACTURERS, Connaught Rooms, Great Queen Street, London, W.C.2. 12.15 for 12.45 p.m. Annual luncheon meeting.

### Friday, January 25

BIRKENHEAD and WIRRAL PHARMACISTS' ASSOCIATION and BRANCH, Central Hotel, Birkenhead, at 8 p.m. Mr. A. A. Meldrum (a past-president of the Pharmaceutical Society) on "My Experiences and Pharmacy in Australia."

CROYDON PHARMACISTS' ASSOCIATION and BRANCH, Café Royal, Croydon, at 8 p.m. Mr. A. R. Chamings on "The Cortisone Story."

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